

# California High-Speed Rail Authority



**RFP No.: HSR 14-32**

## **Request for Proposals for Design-Build Services for Construction Package 4**

### **Reference Material, Part B.3 PE4P Composite Utility Plans**

**Note: Southern limit of CP4 ends just north of Poplar Ave, at approximately station WS1 5880+00, even though this document shows the limit just north of 7th Standard Road. Work south of the contract limit of WS1 5880+00 should not be considered as part of the contract**





# CALIFORNIA HIGH-SPEED TRAIN

## Engineering Drawings

### Preliminary Engineering for Procurement Record Set Submission **Fresno to Bakersfield** Sierra Subdivision Construction Package 4 Composite Utility Plans

September 2014



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09/30/14

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

**PACKAGE 4  
UTILITIES  
COMPOSITE UTILITY PLAN  
ALIGNMENT LOCATION MAP**

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-B0002  
SCALE  
AS SHOWN  
SHEET NO.  
1 OF 163

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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| CALIFORNIA HIGH-SPEED TRAIN PROJECT<br>FRESNO TO BAKERSFIELD<br>PACKAGE 4<br>UTILITIES<br>COMPOSITE UTILITY PLAN<br>INDEX OF DRAWINGS (SHEET 1 OF 2) |
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| UT-C4730   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - MERCED AVENUE              | 138 OF 163 |
| UT-C4731   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - MERCED AVENUE              | 139 OF 163 |
| UT-C4732   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - POPLAR AVENUE              | 140 OF 163 |
| UT-C4733   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - POPLAR AVENUE              | 141 OF 163 |
| UT-C4734   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - FRESNO AVENUE ACCESS ROAD  | 142 OF 163 |
| UT-C4735   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - FRESNO AVENUE              | 143 OF 163 |
| UT-C4736   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - FRESNO AVENUE              | 144 OF 163 |
| UT-C4737   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - FRESNO AVENUE              | 145 OF 163 |
| UT-C4738   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - RELOCATED LONE STAR SPUR   | 146 OF 163 |
| UT-C4739   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - RELOCATED LONE STAR SPUR   | 147 OF 163 |
| UT-C4740   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - RELOCATED LONE STAR SPUR   | 148 OF 163 |
| UT-C4741   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - RELOCATED LONE STAR SPUR   | 149 OF 163 |
| UT-C4742   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - BURBANK STREET             | 150 OF 163 |

DRAWINGS - CONT.

| DRAWING NO | DRAWING DESCRIPTION  | SHEET NO   |
|------------|--|------------|
| UT-C4743   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - BURBANK STREET              | 151 OF 163 |
| UT-C4744   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - BURBANK STREET              | 152 OF 163 |
| UT-C4745   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - BURBANK STREET              | 153 OF 163 |
| UT-C4746   | PACKAGE 4 - ALIGN. WS1 - UTILITIES - COMPOSITE UTILITY PLAN - EX. LONE STAR SPUR ABANDONMENT | 154 OF 163 |
| UT-C4747   | PACKAGE 4 - ALIGN. WS1 - UTILITIES - COMPOSITE UTILITY PLAN - EX. LONE STAR SPUR ABANDONMENT | 155 OF 163 |
| UT-C4748   | PACKAGE 4 - ALIGN. WS1 - UTILITIES - COMPOSITE UTILITY PLAN - EX. LONE STAR SPUR ABANDONMENT | 156 OF 163 |
| UT-C4749   | PACKAGE 4 - ALIGN. WS1 - UTILITIES - COMPOSITE UTILITY PLAN - EX. LONE STAR SPUR ABANDONMENT | 157 OF 163 |
| UT-C4750   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - SANTE FE WAY                | 158 OF 163 |
| UT-C4751   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - SANTE FE WAY                | 159 OF 163 |
| UT-C4752   | PACKAGE 4 - ALIGNMENT WS1 - UTILITIES - COMPOSITE UTILITY PLAN - SANTE FE WAY                | 160 OF 163 |
| UT-Y4505   | PACKAGE 4 - UTILITIES - COMPOSITE UTILITY PLAN - HH&D FACILITY SCHEDULE (SHEET 1 OF 3)       | 161 OF 163 |
| UT-Y4506   | PACKAGE 4 - UTILITIES - COMPOSITE UTILITY PLAN - HH&D FACILITY SCHEDULE (SHEET 2 OF 3)       | 162 OF 163 |
| UT-Y4507   | PACKAGE 4 - UTILITIES - COMPOSITE UTILITY PLAN - HH&D FACILITY SCHEDULE (SHEET 3 OF 3)       | 163 OF 163 |

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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| <b>PROPOSED<br/>PRELIMINARY<br/>DESIGN</b> |
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| <b>CALIFORNIA HIGH-SPEED TRAIN PROJECT<br/>FRESNO TO BAKERSFIELD</b>                 |
| PACKAGE 4<br>UTILITIES<br>COMPOSITE UTILITY PLAN<br>INDEX OF DRAWINGS (SHEET 2 OF 2) |

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>GE-A0024     |
| SCALE<br>NO SCALE           |
| SHEET NO.<br>3 OF 163       |

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GENERAL NOTES:

1. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE LOCATION OF EXISTING UTILITIES ARE BASED ON FOUR SOURCES:

1.) TOPOGRAPHIC SURVEY

2.) G.I.S.

3.) AS-BUILT DRAWINGS

4.) LIMITED FIELD RECONNAISSANCE

THE CONTRACTOR SHALL CONDUCT ITS OWN SURVEY AND VERIFY THE LOCATION OF EXISTING UTILITIES AND RECONCILE THE SURVEY DATA AND GIS DATA.
2. SERVICE LATERALS FOR POTABLE WATER, SANITARY SEWER & NATURAL GAS ARE NOT SHOWN.

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| IN CHARGE<br>S. BURGESS |
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CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD

PACKAGE 4  
UTILITIES  
COMPOSITE UTILITY PLAN  
GENERAL NOTES

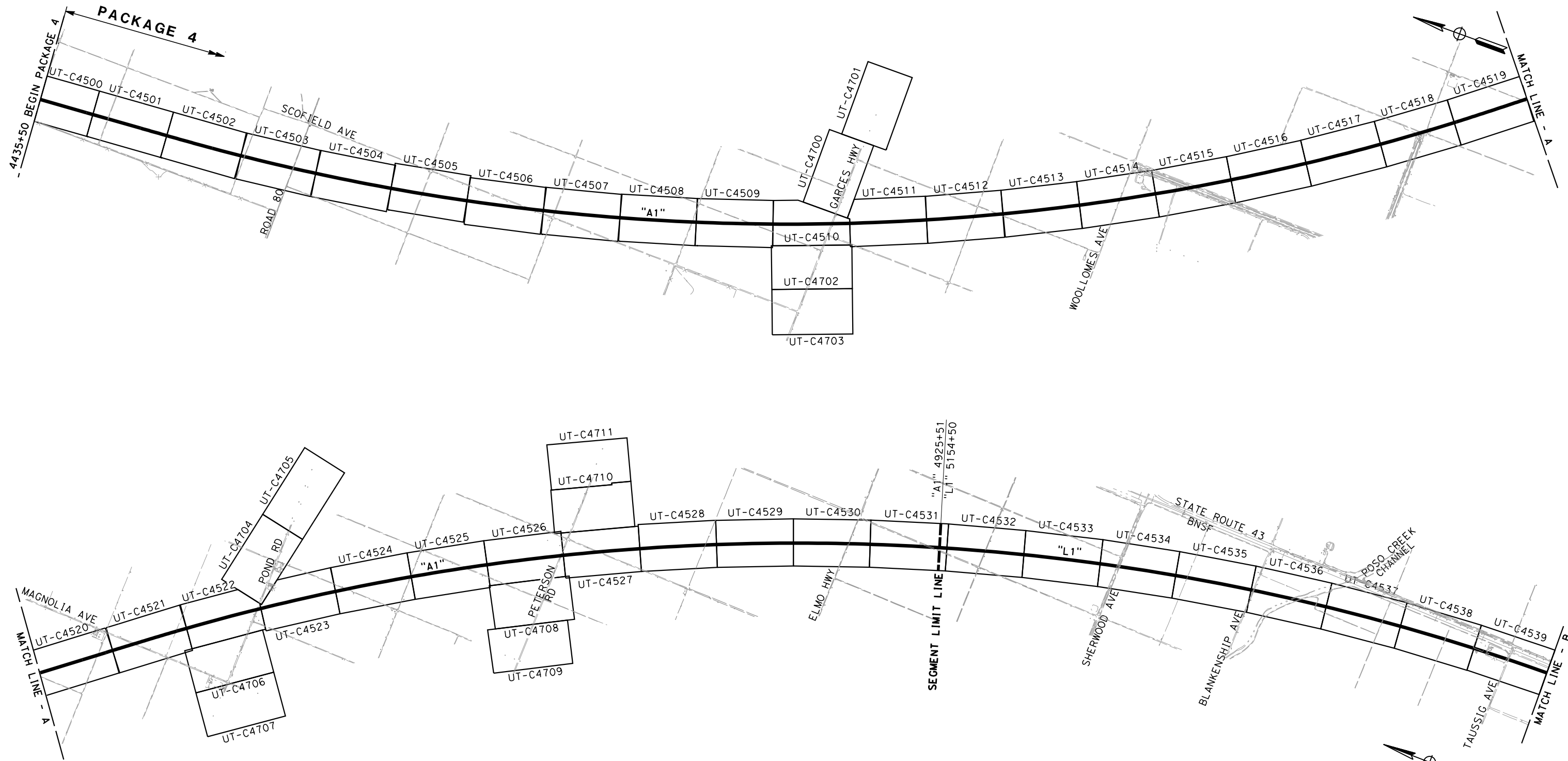
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

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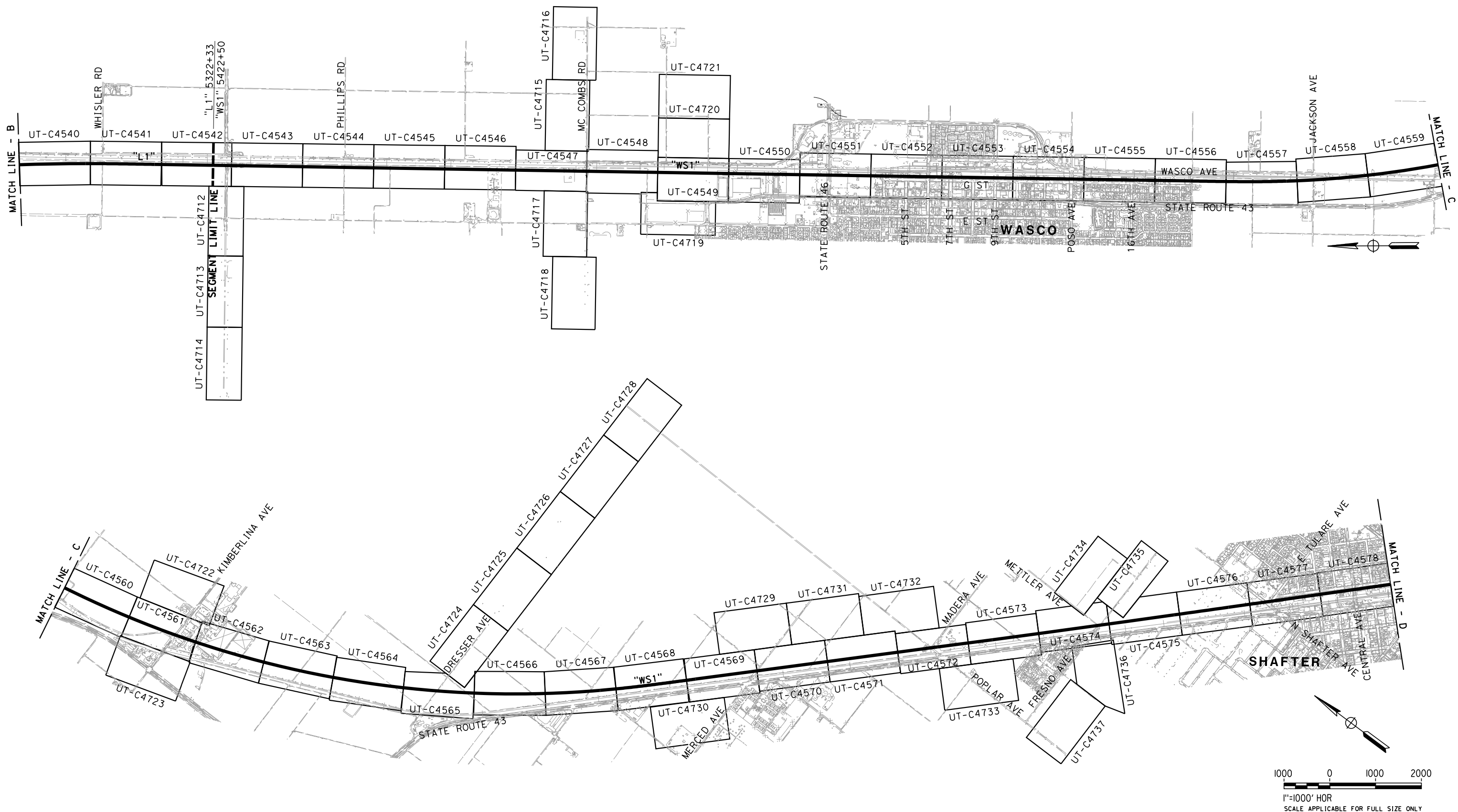
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4  
UTILITIES  
COMPOSITE UTILITY PLAN  
KEY MAP (SHEET 1 OF 3)

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-B0029  
SCALE  
AS SHOWN  
SHEET NO.  
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| DESIGNED BY<br>T. RAMIL |
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

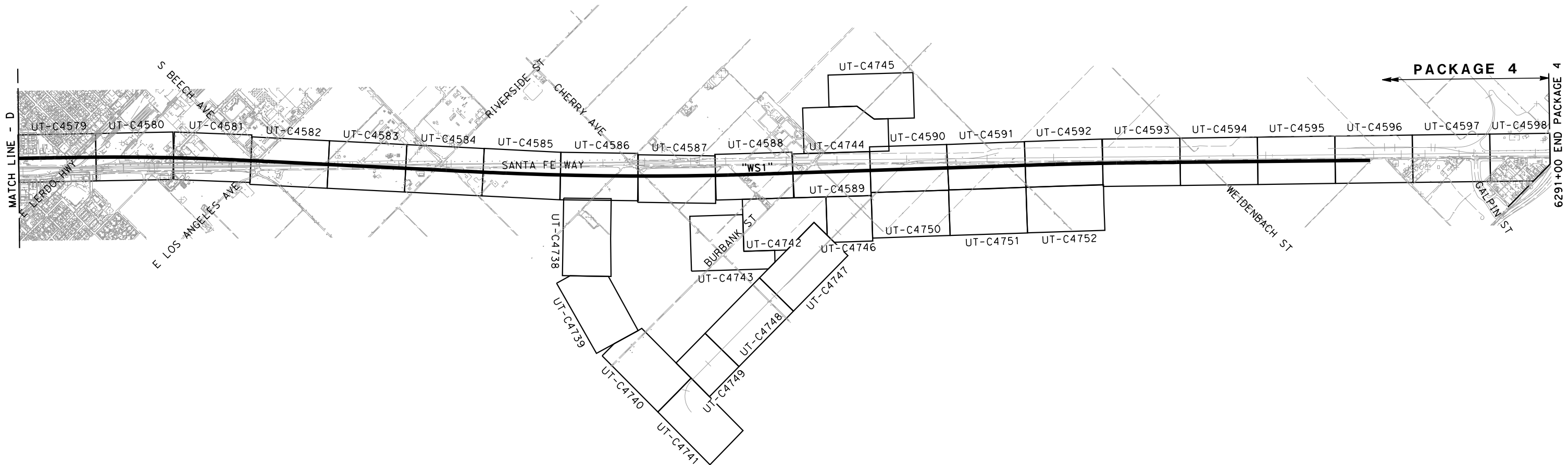
PACKAGE 4  
UTILITIES  
COMPOSITE UTILITY PLAN  
KEY MAP (SHEET 2 OF 3)

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-B0030     |
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| SHEET NO.<br>7 OF 163       |

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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
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CALIFORNIA  
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4  
UTILITIES  
COMPOSITE UTILITY PLAN  
KEY MAP (SHEET 3 OF 3)

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-B0031  
SCALE  
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SHEET NO.  
8 OF 163

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| IN CHARGE<br>S. BURGESS |
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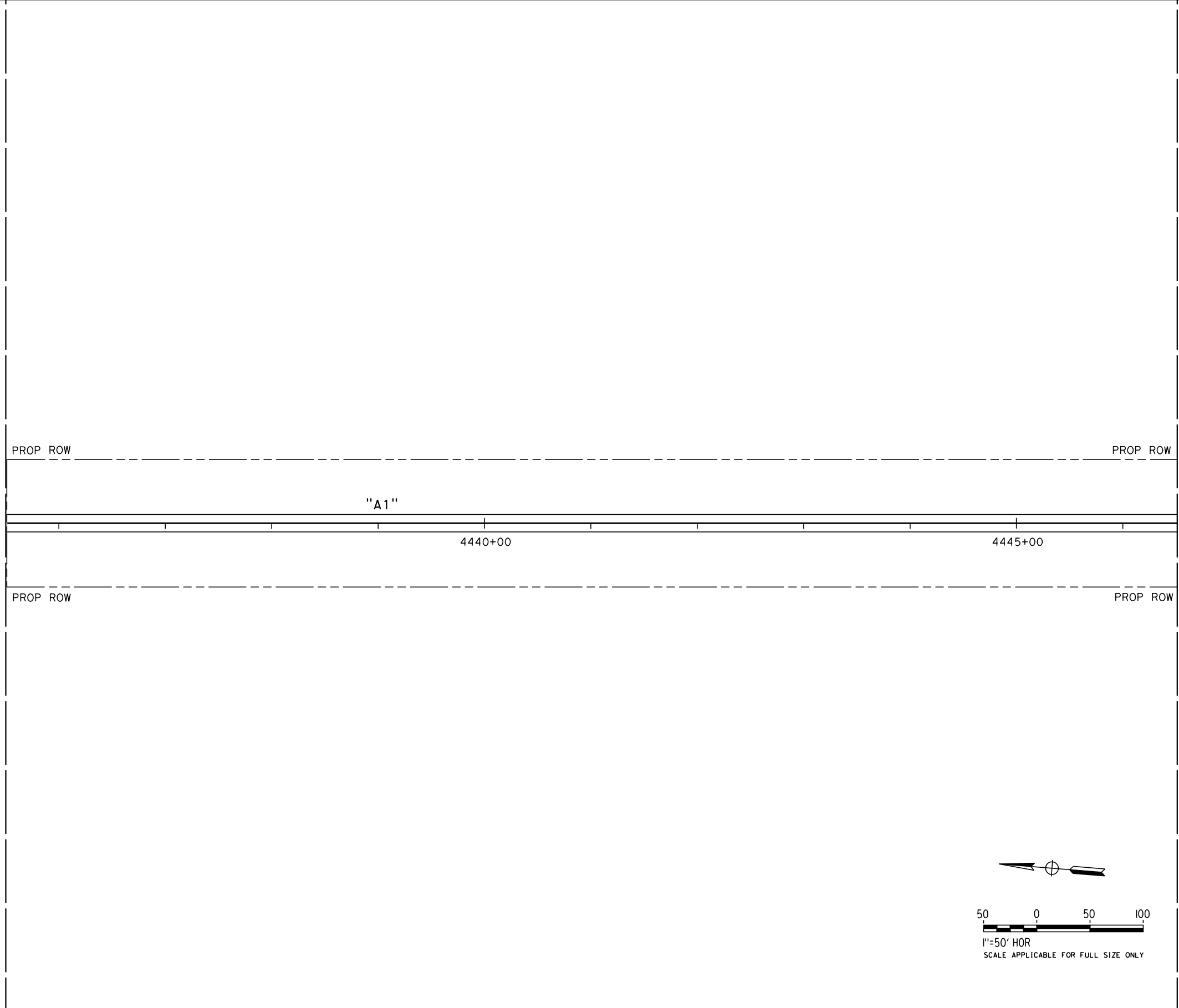
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4435+50 TO 4446+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4500     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>9 OF 163       |

MATCH LINE (END OF PACKAGE 2-3 AND START OF PACKAGE 4)



MATCH LINE (UT-C4501)

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MATCH LINE (UT-C4500)

PROP ROW

PROP ROW

4450+00

4455+00

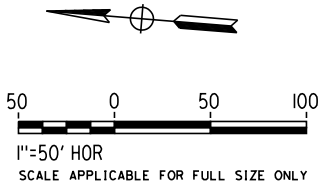
4460+00

"A1"

PROP ROW

PROP ROW

MATCH LINE (UT-C4502)



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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PRELIMINARY  
DESIGN

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CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4446+50 TO 4462+00

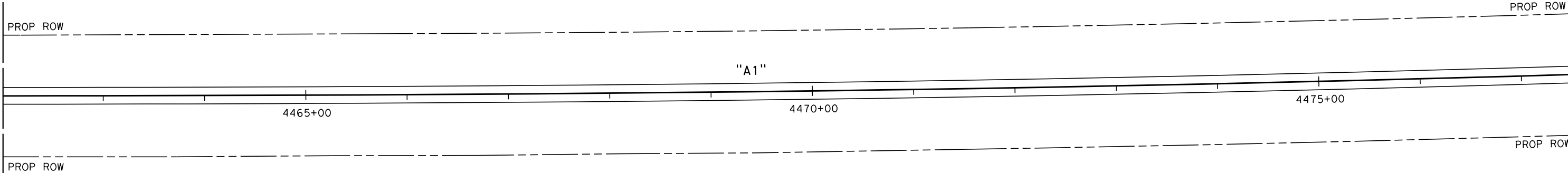
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| CONTRACT NO.<br>HSR 06-0003 |
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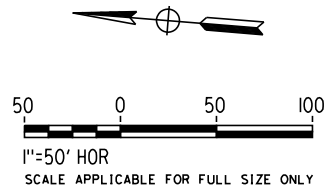
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MATCH LINE (UT-C4501)



MATCH LINE (UT-C4503)



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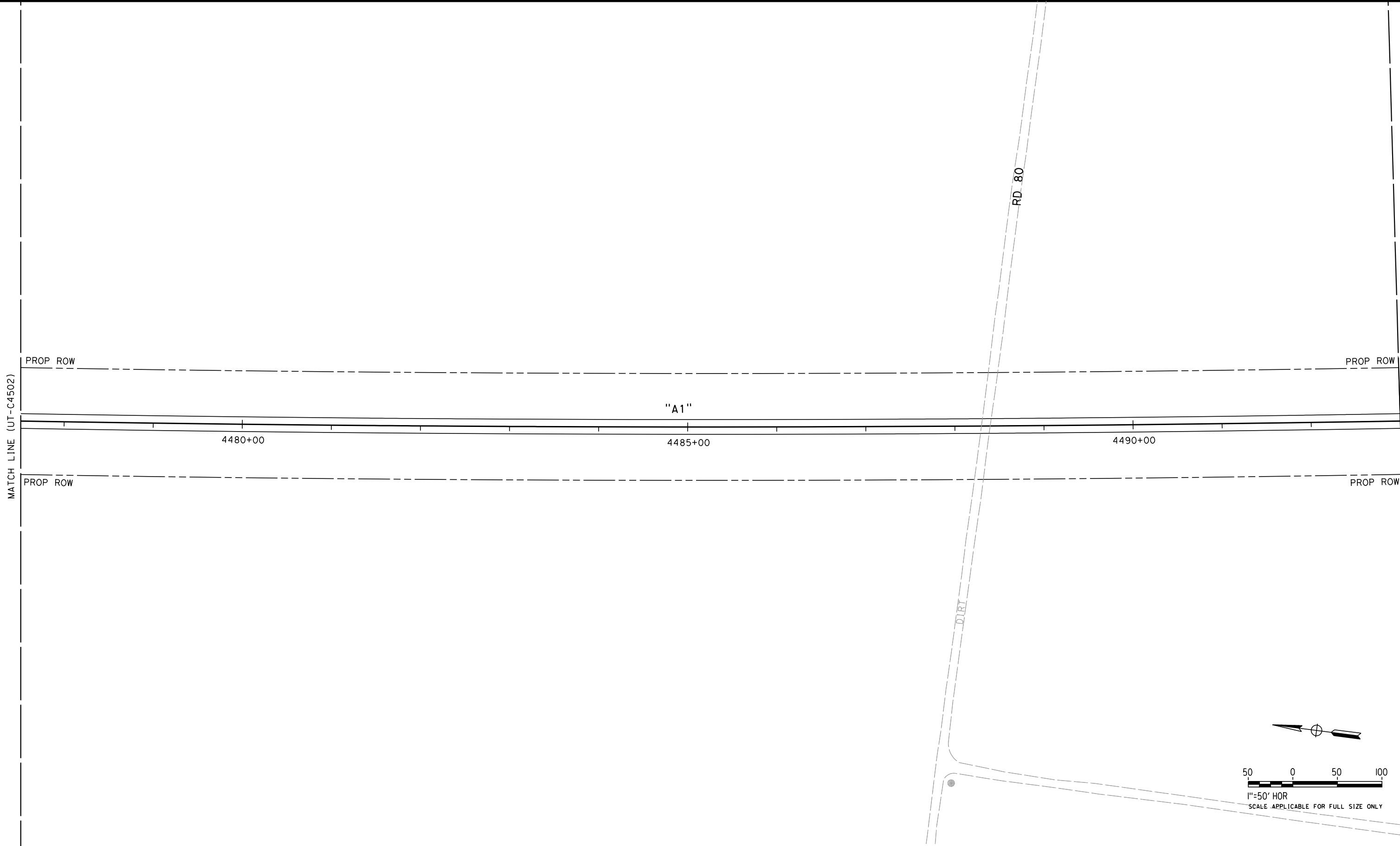
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4462+00 TO 4477+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4502     |
| SCALE<br>AS SHOWN           |
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DESIGN**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4477+50 TO 4493+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4503     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>12 OF 163      |

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MATCH LINE (UT-C4503)

PROP ROW

4495+00

4500+00

4505+00

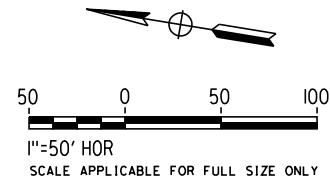
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PROP ROW

PROP ROW

MATCH LINE (UT-C4505)

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| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4493+00 TO 4508+50

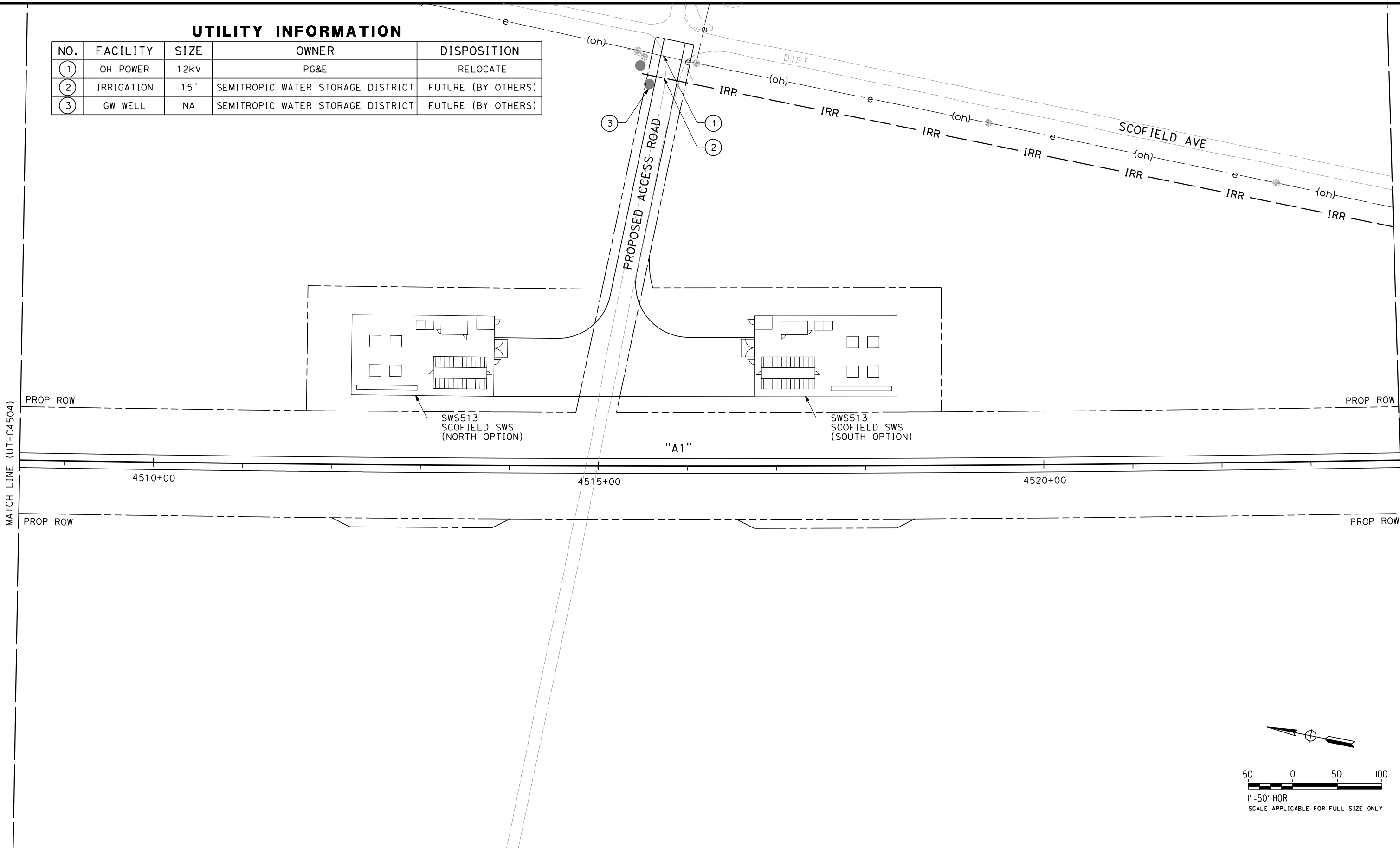
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| DRAWING NO.<br>UT-C4504     |
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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION        |
|-----|------------|------|-----------------------------------|--------------------|
| ①   | OH POWER   | 12kV | PG&E                              | RELOCATE           |
| ②   | IRRIGATION | 15"  | SEMITROPIC WATER STORAGE DISTRICT | FUTURE (BY OTHERS) |
| ③   | GW WELL    | NA   | SEMITROPIC WATER STORAGE DISTRICT | FUTURE (BY OTHERS) |



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| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

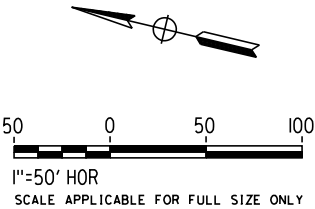
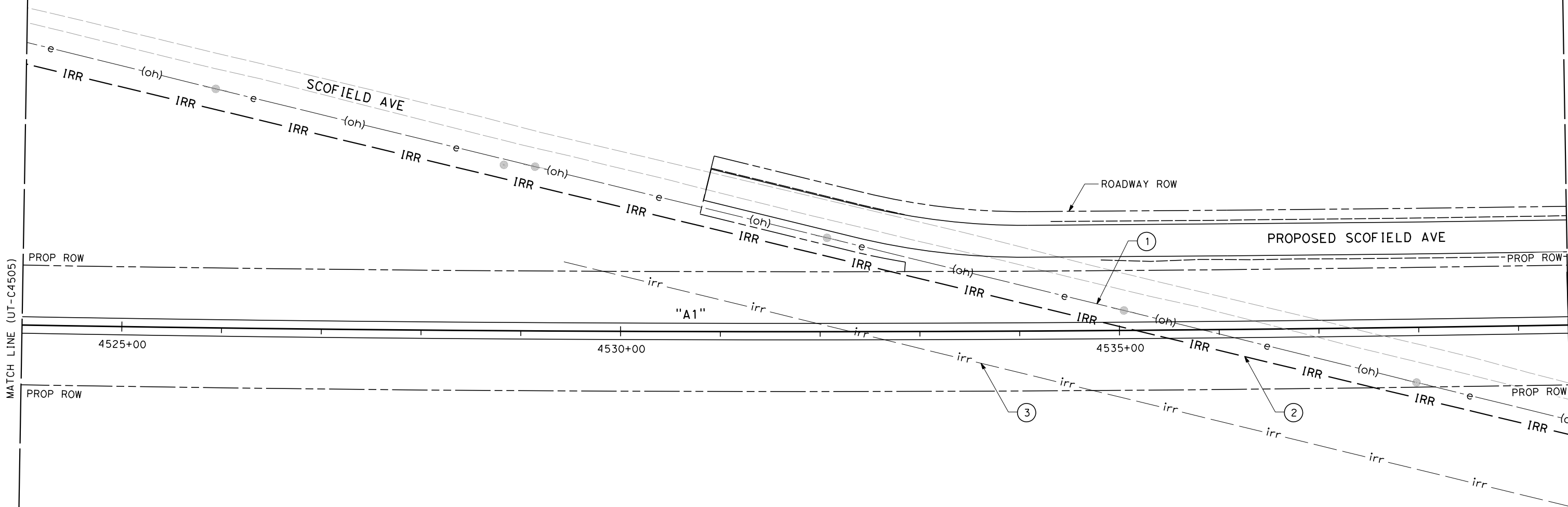
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4508+50 TO 4524+00

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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION        |
|-----|------------|------|-----------------------------------|--------------------|
| ①   | OH POWER   | 12kV | PG&E                              | RELOCATE           |
| ②   | IRRIGATION | 15"  | SEMITROPIC WATER STORAGE DISTRICT | FUTURE (BY OTHERS) |
| ③   | IRRIGATION | NA   | UNKNOWN                           | RELOCATE           |



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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4524+00 TO 4539+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4506     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>15 OF 163      |

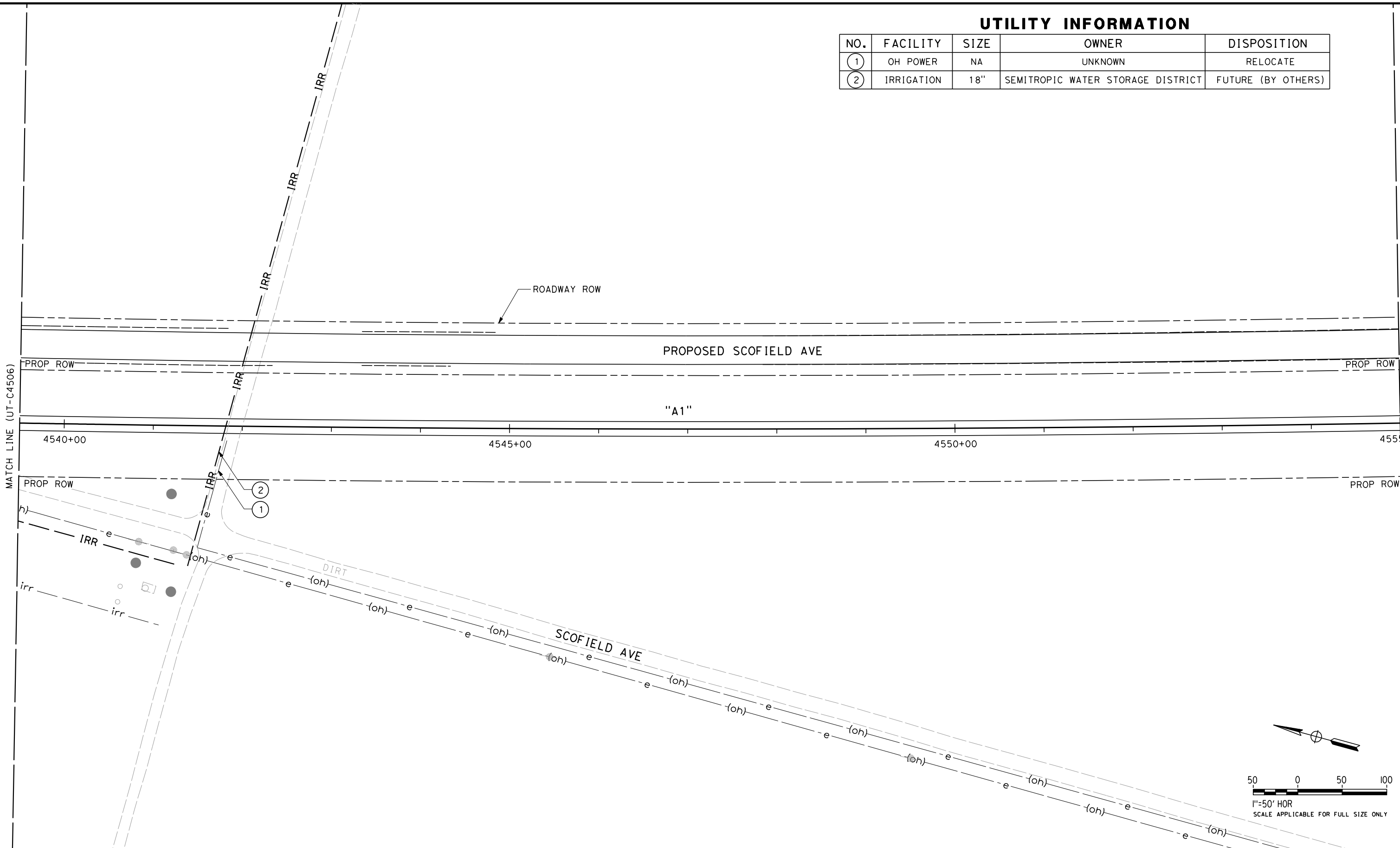
REF No. HSR 14-32 – INITIAL RELEASE - 05/27/2015



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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION        |
|-----|------------|------|-----------------------------------|--------------------|
| 1   | OH POWER   | NA   | UNKNOWN                           | RELOCATE           |
| 2   | IRRIGATION | 18"  | SEMITROPIC WATER STORAGE DISTRICT | FUTURE (BY OTHERS) |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

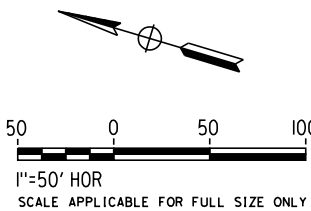
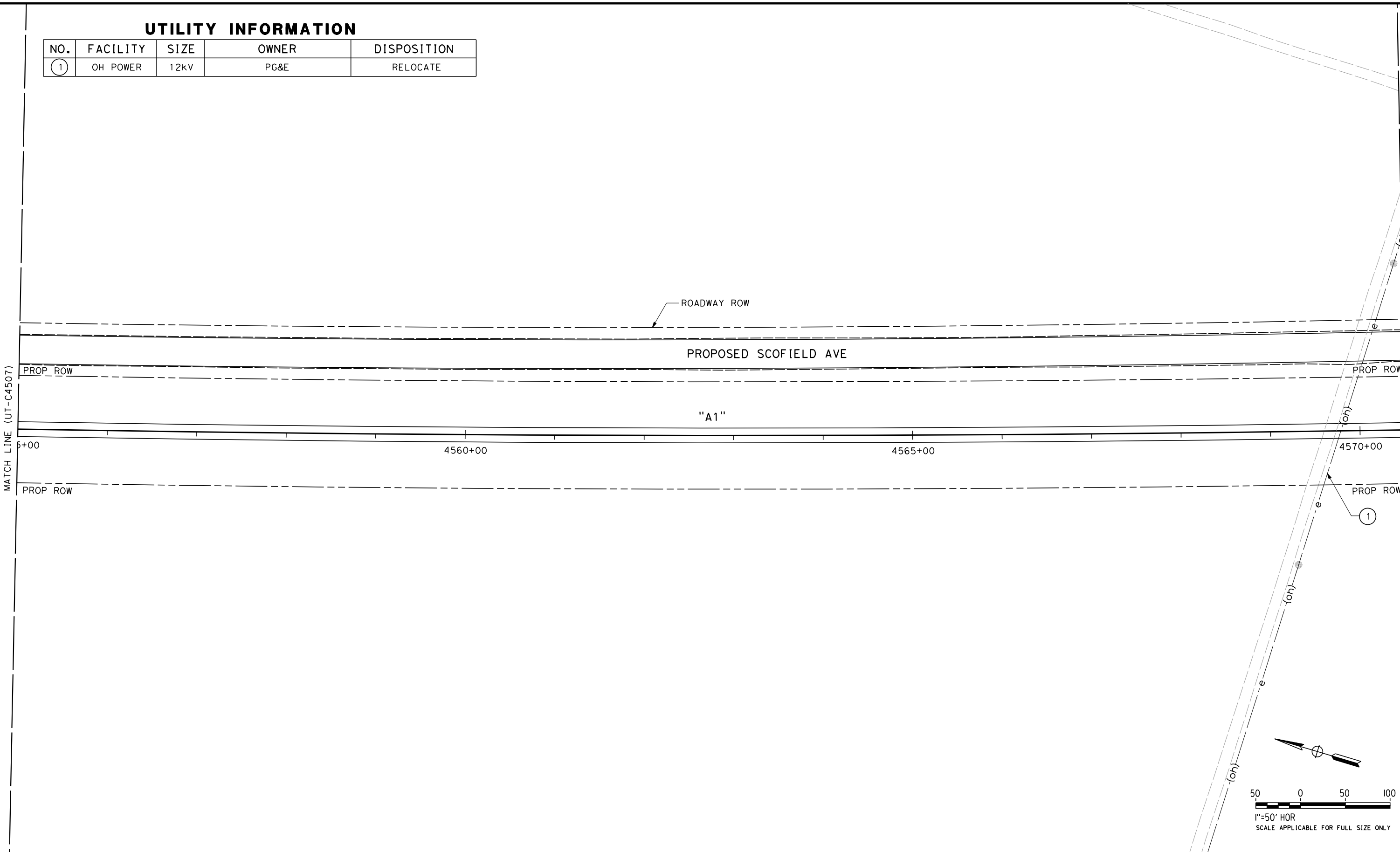
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4539+50 TO 4555+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4507     |
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| SHEET NO.<br>16 OF 163      |

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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| 1   | OH POWER | 12kV | PG&E  | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4555+00 TO 4570+50

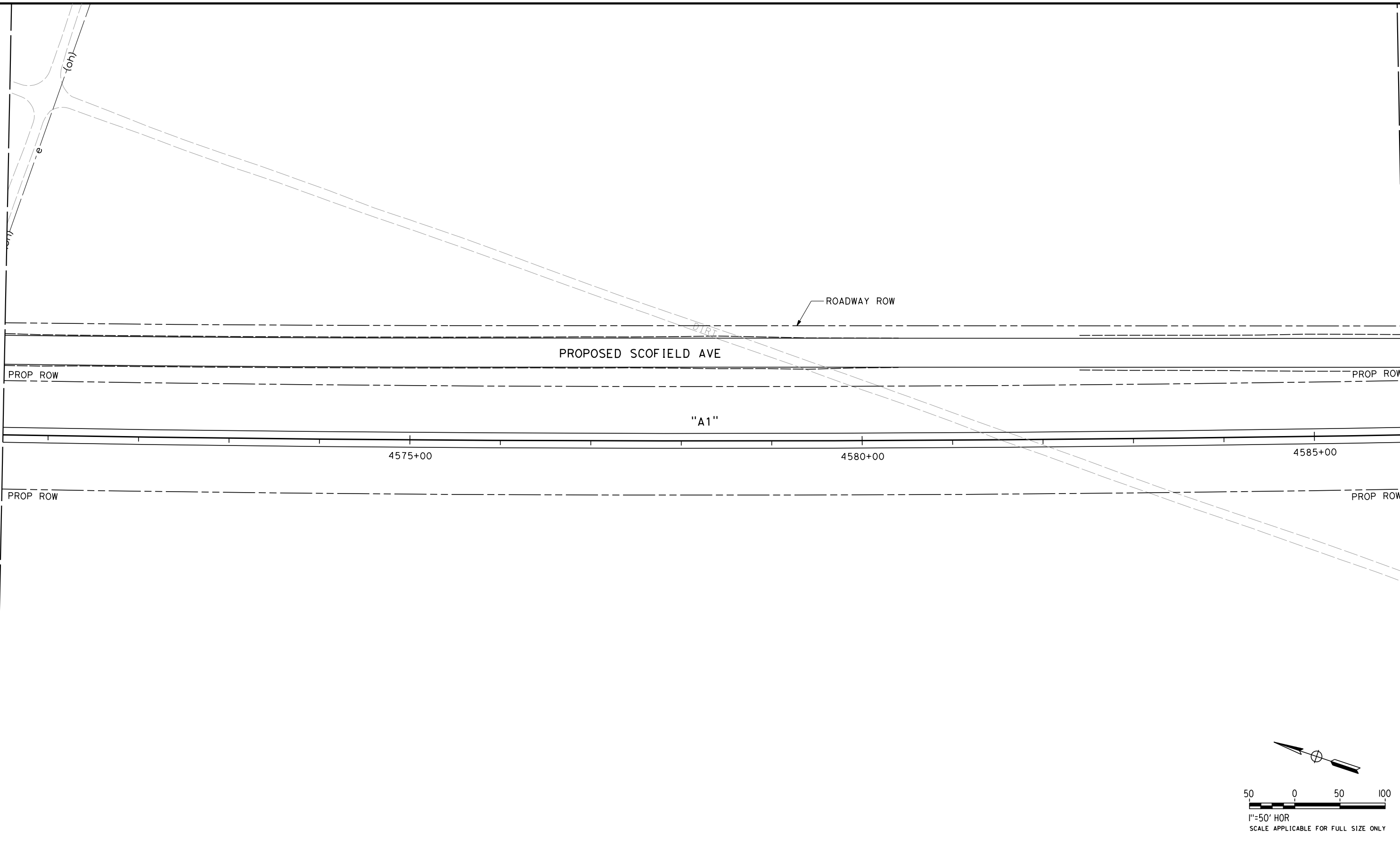
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4508     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>17 OF 163      |

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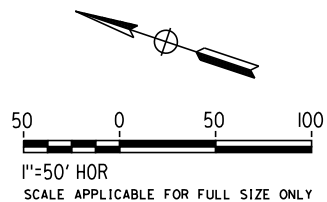
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ORT52801

MATCH LINE (UT-C4508)



RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

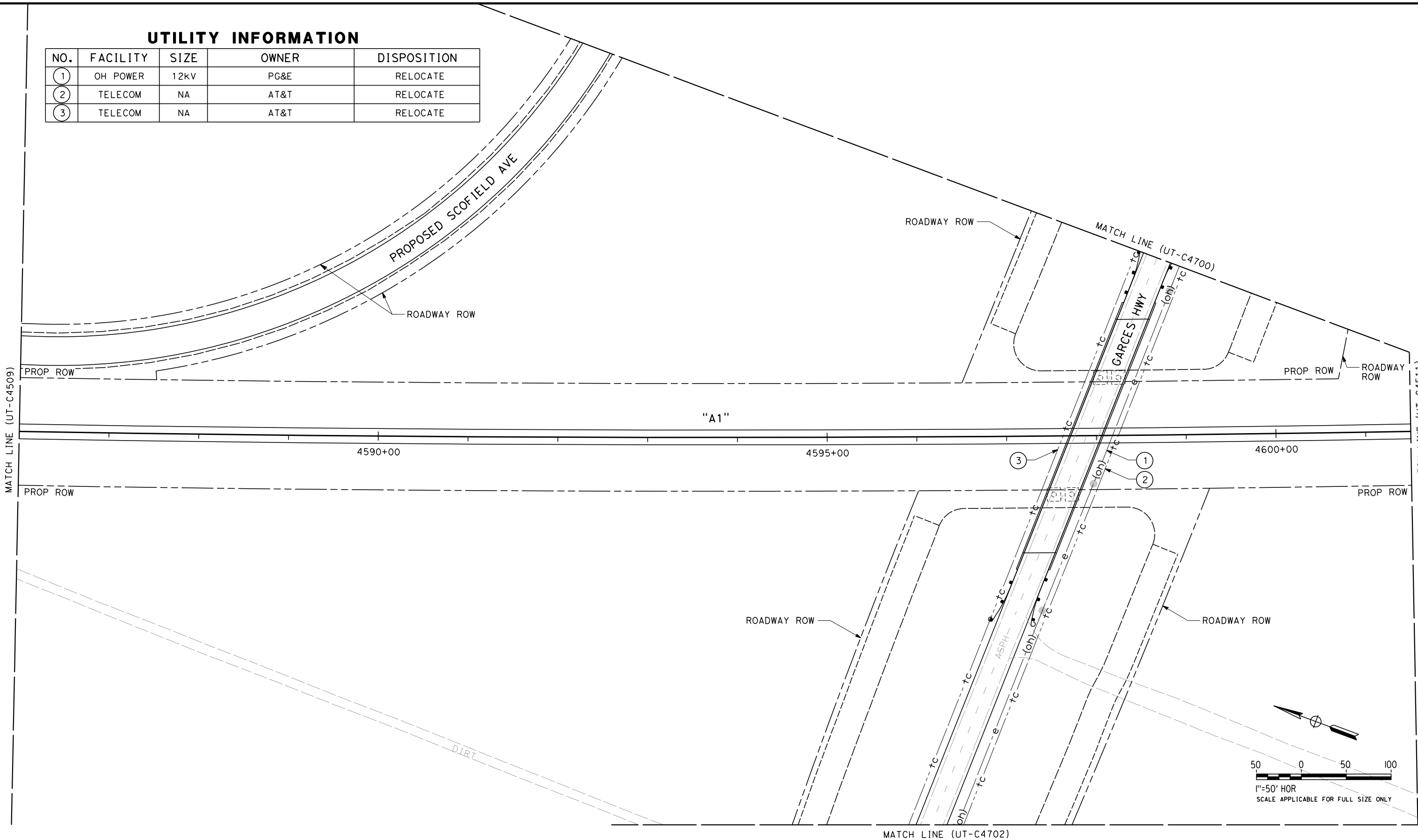
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4570+50 TO 4586+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4509     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>18 OF 163      |

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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| ①   | OH POWER | 12kV | PG&E  | RELOCATE    |
| ②   | TELECOM  | NA   | AT&T  | RELOCATE    |
| ③   | TELECOM  | NA   | AT&T  | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



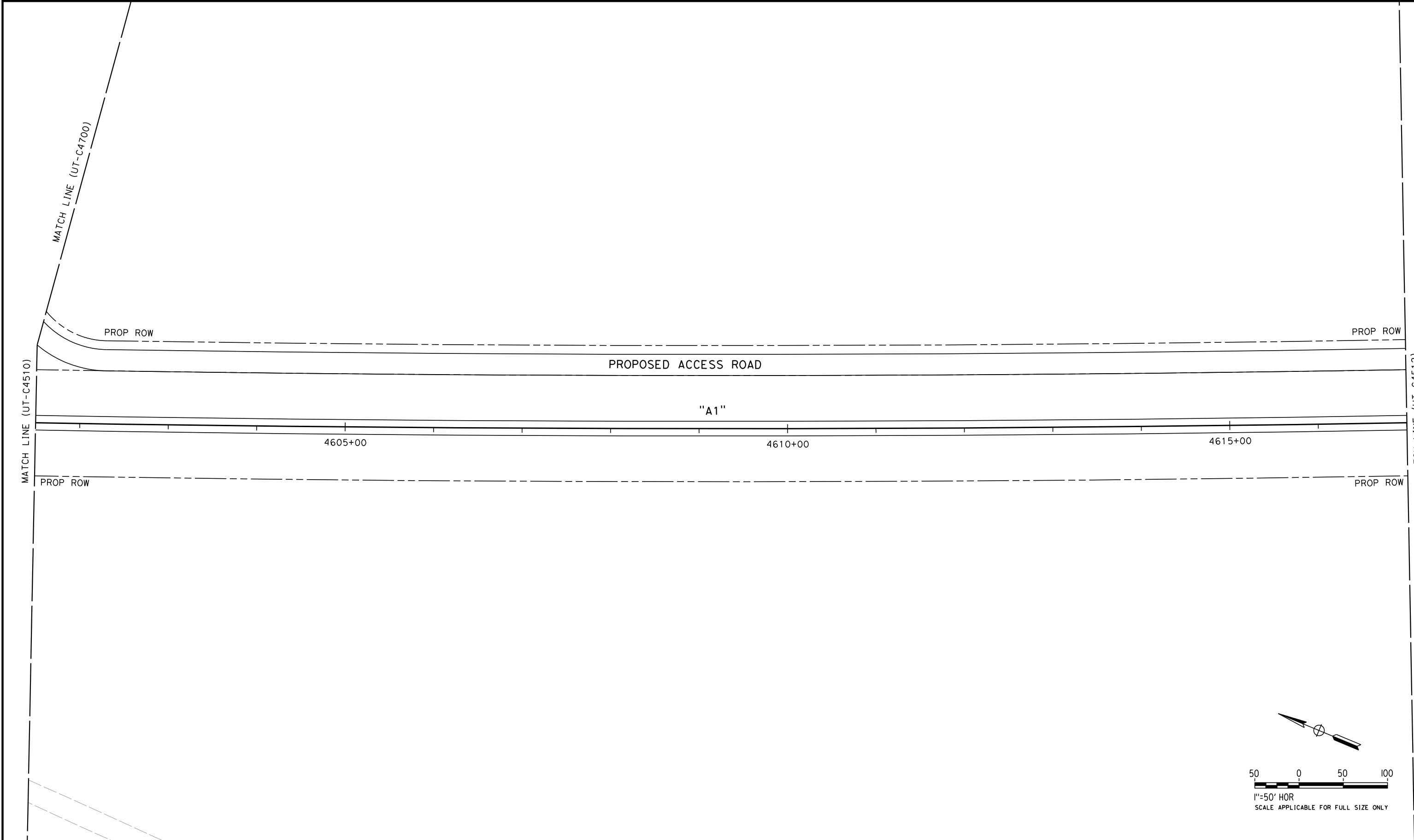
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4586+00 TO 4601+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4510     |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4601+50 TO 4617+00

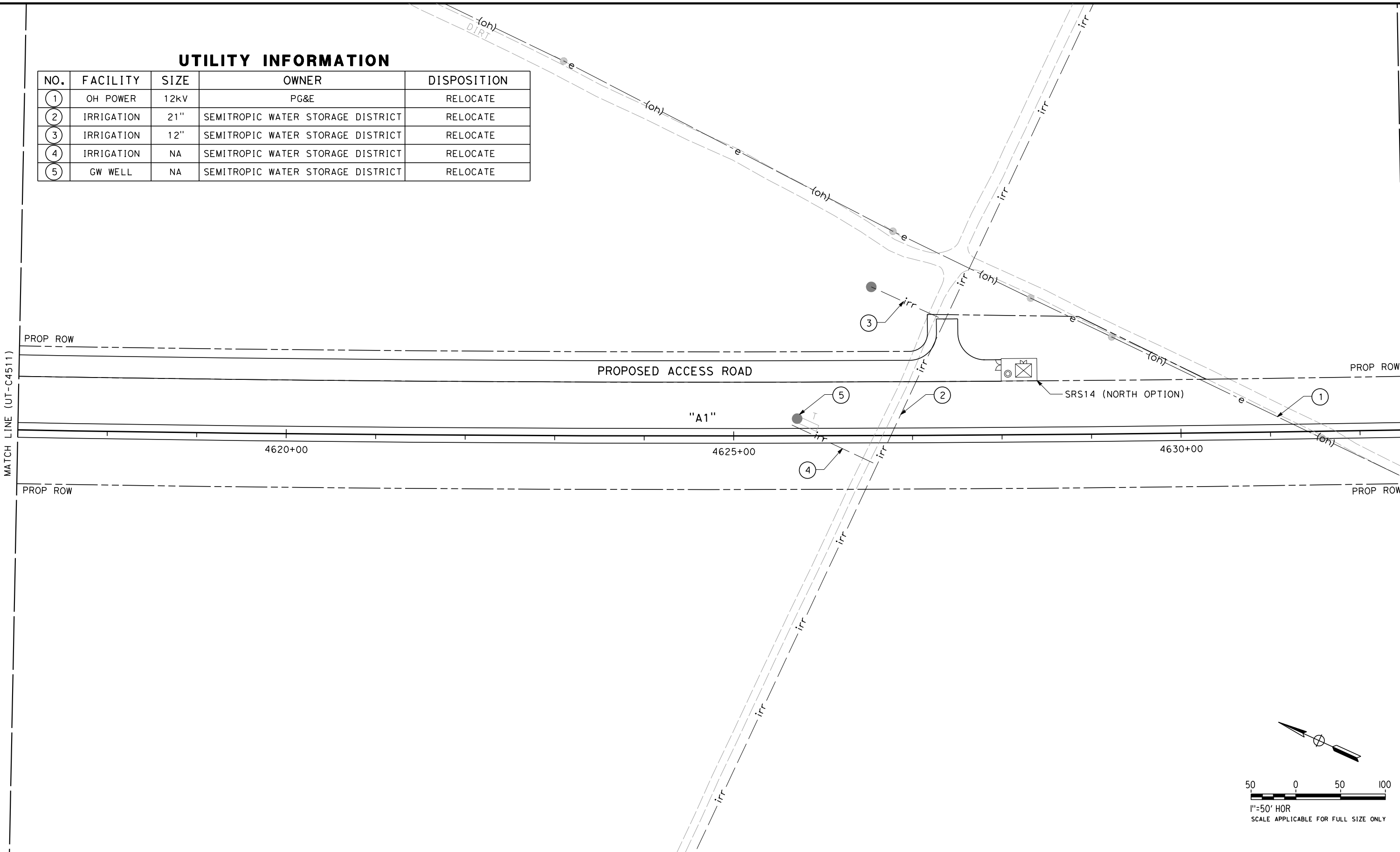
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4511     |
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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| 1   | OH POWER   | 12KV | PG&E                              | RELOCATE    |
| 2   | IRRIGATION | 21"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| 3   | IRRIGATION | 12"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| 4   | IRRIGATION | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| 5   | GW WELL    | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

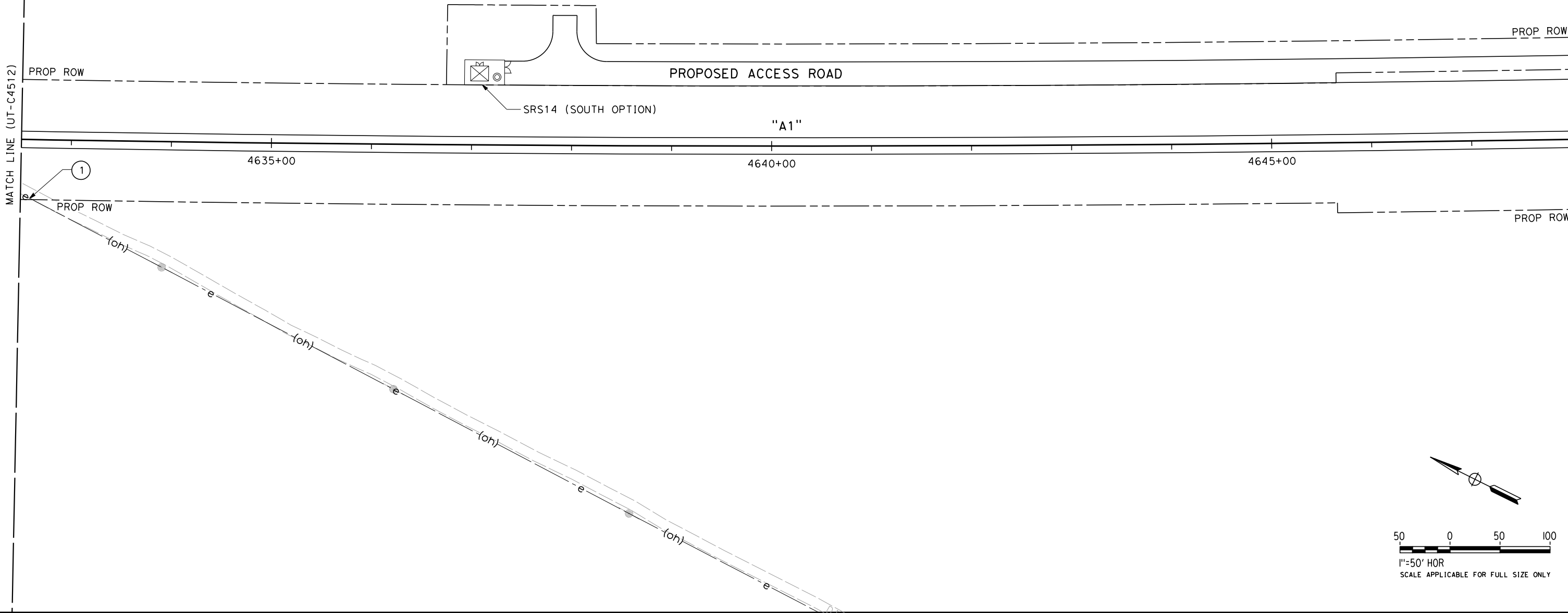
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4617+00 TO 4632+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4512     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>21 OF 163      |

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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| 1   | OH POWER | 12kV | PG&E  | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4632+50 TO 4648+00

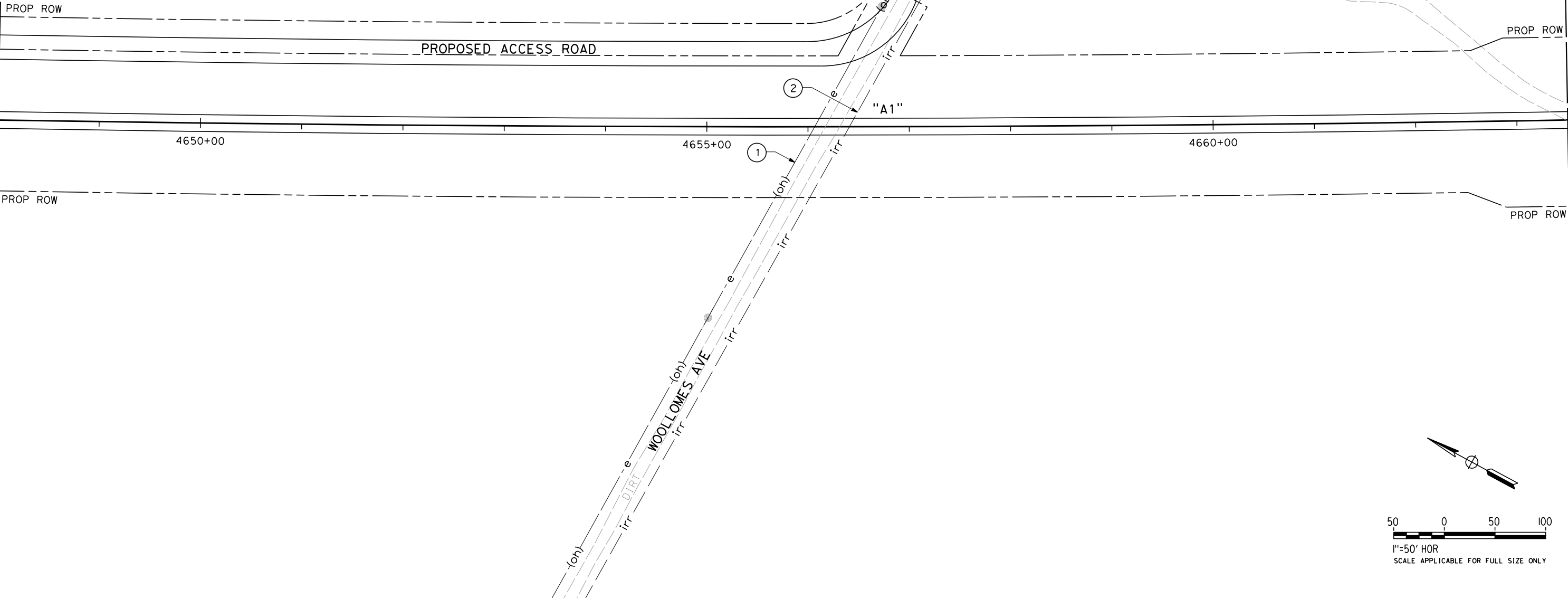
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4513     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>22 OF 163      |

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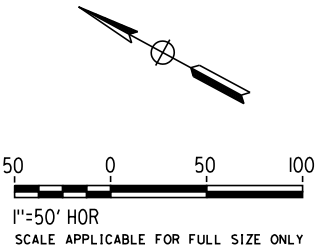
UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| 1   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| 2   | IRRIGATION | 27"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |

MATCH LINE (UT-C4513)



MATCH LINE (UT-C4515)



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4648+00 TO 4663+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4514     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>23 OF 163      |

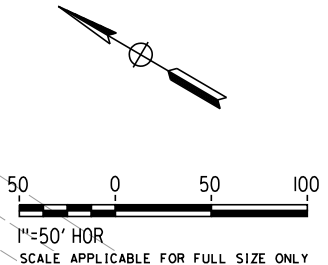
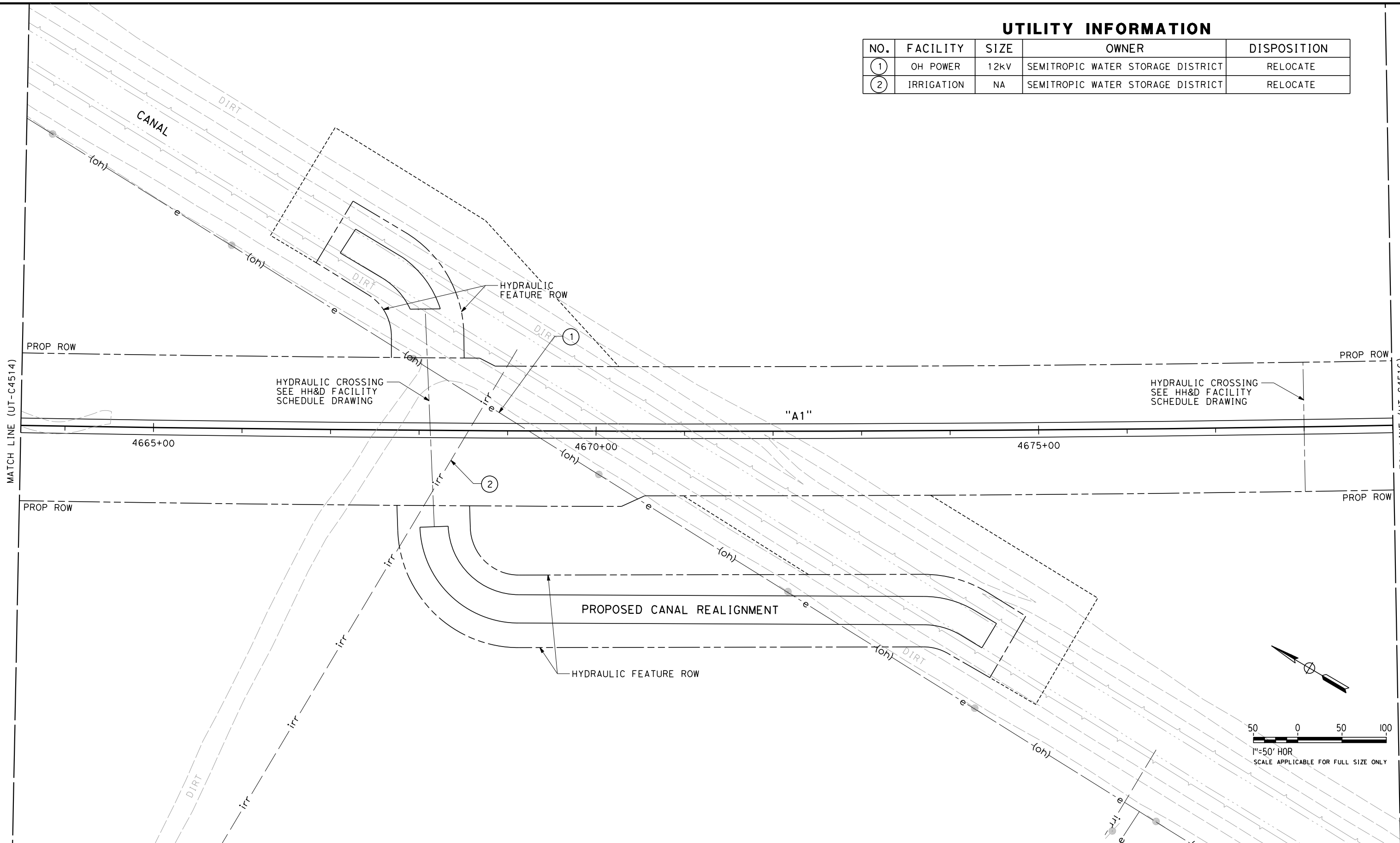


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ORT52801

UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| 1   | OH POWER   | 12KV | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| 2   | IRRIGATION | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4663+50 TO 4679+00

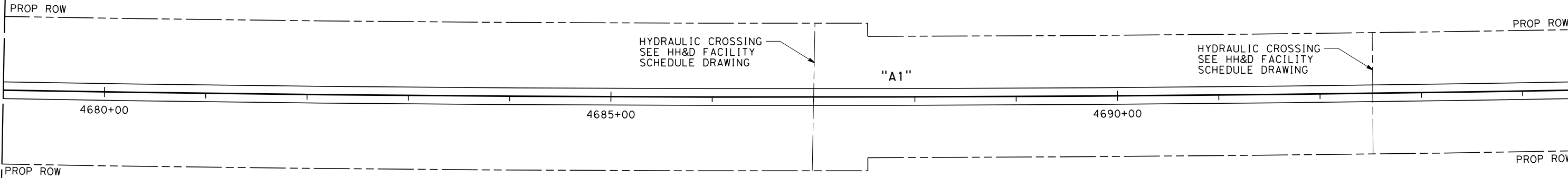
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4515     |
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| SHEET NO.<br>24 OF 163      |

REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

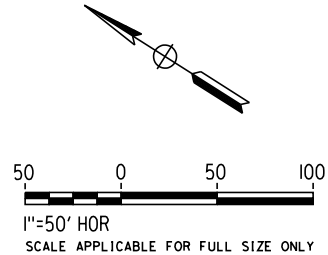
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ORT52801

MATCH LINE (UT-C4515)



MATCH LINE (UT-C4517)



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4679+00 TO 4694+50

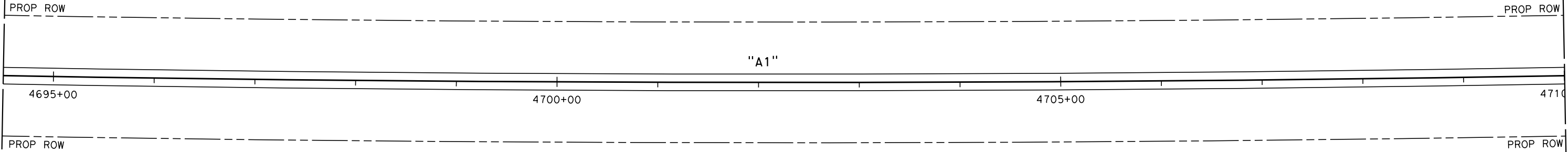
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4516     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>25 OF 163      |

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

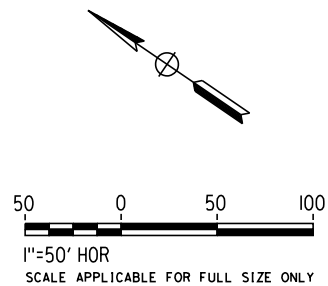
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ORT52801

MATCH LINE (UT-C4516)



MATCH LINE (UT-C4518)



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4694+50 TO 4710+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4517     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>26 OF 163      |

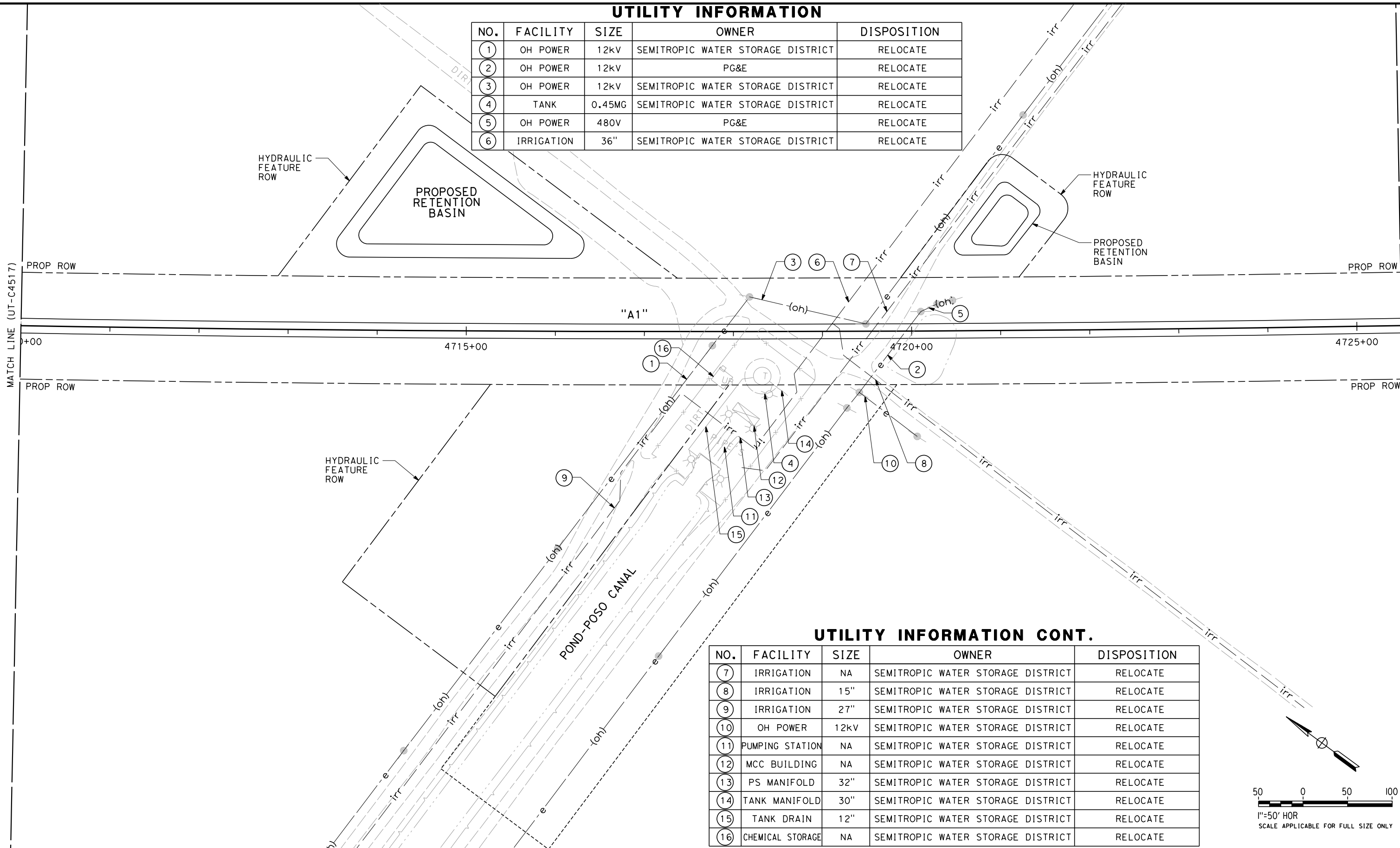
RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

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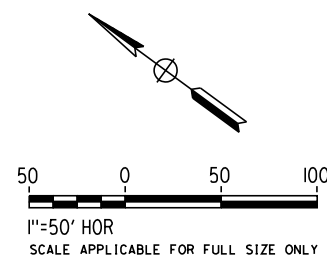
### UTILITY INFORMATION

| NO. | FACILITY   | SIZE   | OWNER                             | DISPOSITION |
|-----|------------|--------|-----------------------------------|-------------|
| ①   | OH POWER   | 12kV   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ②   | OH POWER   | 12kV   | PG&E                              | RELOCATE    |
| ③   | OH POWER   | 12kV   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ④   | TANK       | 0.45MG | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑤   | OH POWER   | 480V   | PG&E                              | RELOCATE    |
| ⑥   | IRRIGATION | 36"    | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



### UTILITY INFORMATION CONT.

| NO. | FACILITY         | SIZE | OWNER                             | DISPOSITION |
|-----|------------------|------|-----------------------------------|-------------|
| ⑦   | IRRIGATION       | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑧   | IRRIGATION       | 15"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑨   | IRRIGATION       | 27"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑩   | OH POWER         | 12kV | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑪   | PUMPING STATION  | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑫   | MCC BUILDING     | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑬   | PS MANIFOLD      | 32"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑭   | TANK MANIFOLD    | 30"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑮   | TANK DRAIN       | 12"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑯   | CHEMICAL STORAGE | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

**PROPOSED  
PRELIMINARY  
DESIGN**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4710+00 TO 4725+50

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4518  
SCALE  
AS SHOWN  
SHEET NO.  
27 OF 163

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ORT52801

MATCH LINE (UT-C4518)

PROP ROW

"A1"

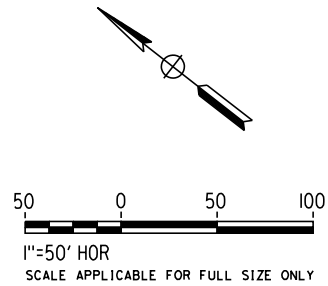
4730+00

4735+00

4740+00

PROP ROW

MATCH LINE (UT-C4520)



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA  
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4725+50 TO 4741+00

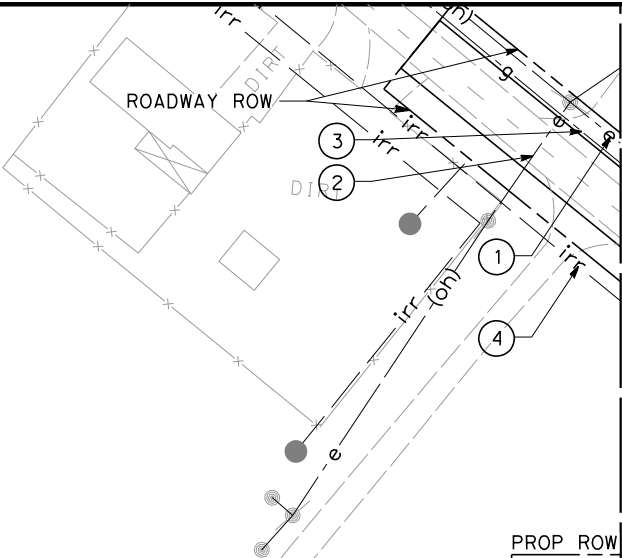
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4519     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>28 OF 163      |

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

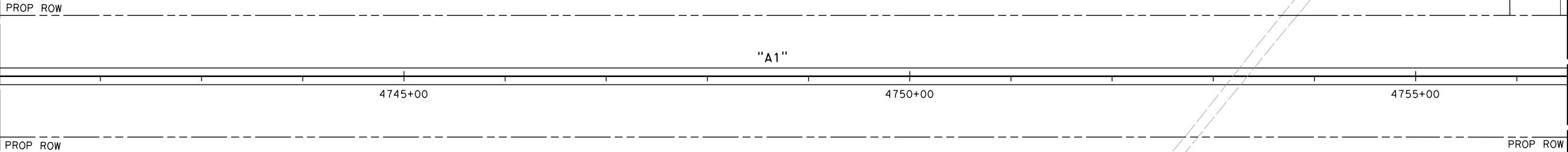
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UTILITY INFORMATION

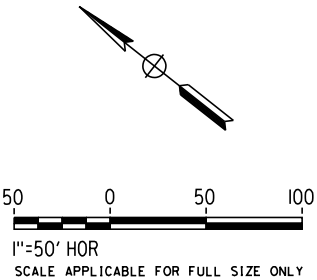
| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION      |
|-----|------------|------|-----------------------------------|------------------|
| ①   | OH POWER   | 12kV | PG&E                              | PROTECT-IN-PLACE |
| ②   | OH POWER   | 12kV | PG&E                              | PROTECT-IN-PLACE |
| ③   | GAS        | 3"   | SEMPRA                            | RELOCATE         |
| ④   | IRRIGATION | 12"  | SEMITROPIC WATER STORAGE DISTRICT | PROTECT-IN-PLACE |



MATCH LINE (UT-C4519)



MATCH LINE (UT-C4521)



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1

UTILITIES

COMPOSITE UTILITY PLAN

STA 4741+00 TO 4756+50

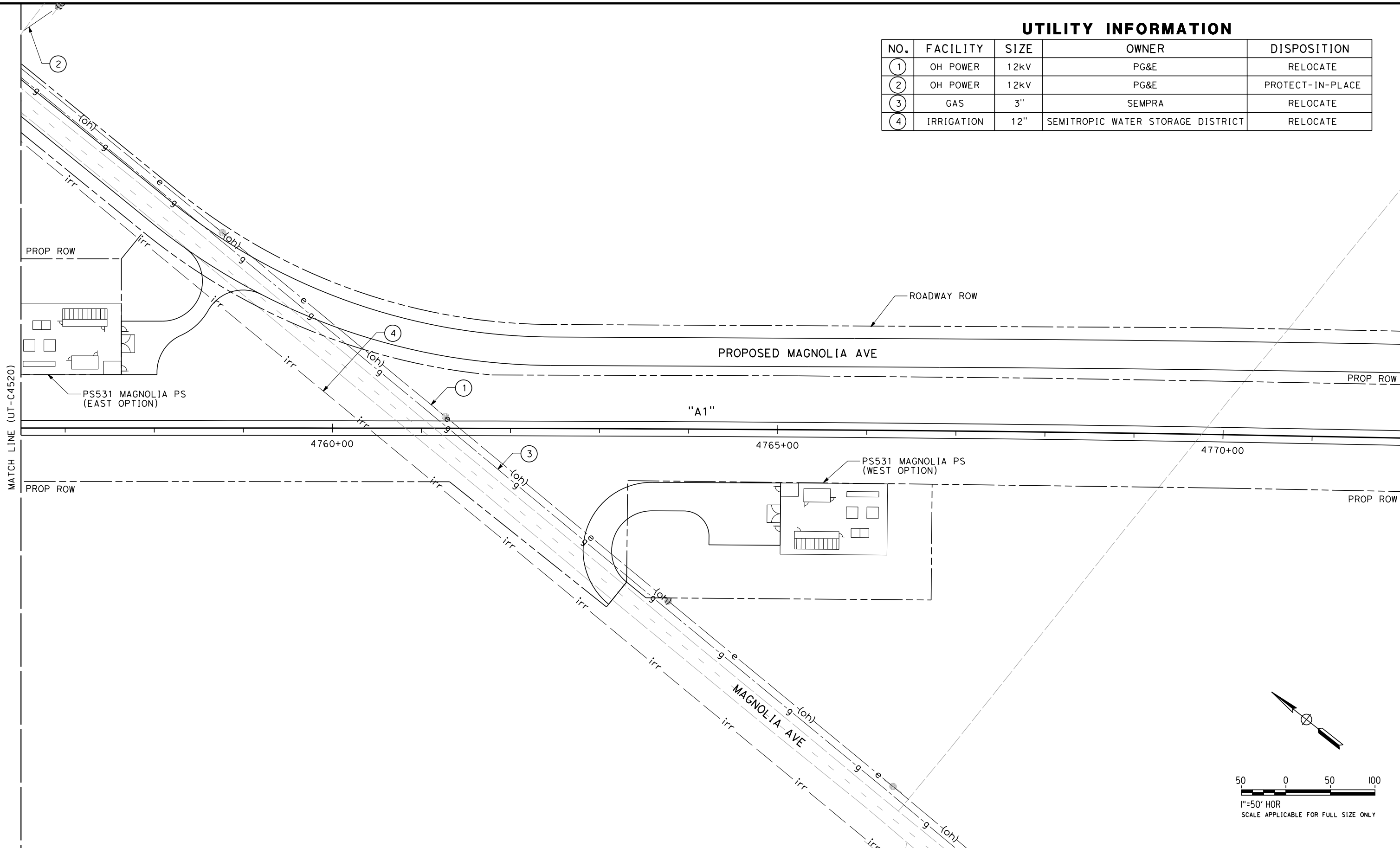
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4520     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>29 OF 163      |

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ORT52801

UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION      |
|-----|------------|------|-----------------------------------|------------------|
| ①   | OH POWER   | 12kV | PG&E                              | RELOCATE         |
| ②   | OH POWER   | 12kV | PG&E                              | PROTECT-IN-PLACE |
| ③   | GAS        | 3"   | SEMPRA                            | RELOCATE         |
| ④   | IRRIGATION | 12"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE         |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4756+50 TO 4772+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4521     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>30 OF 163      |

REF No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

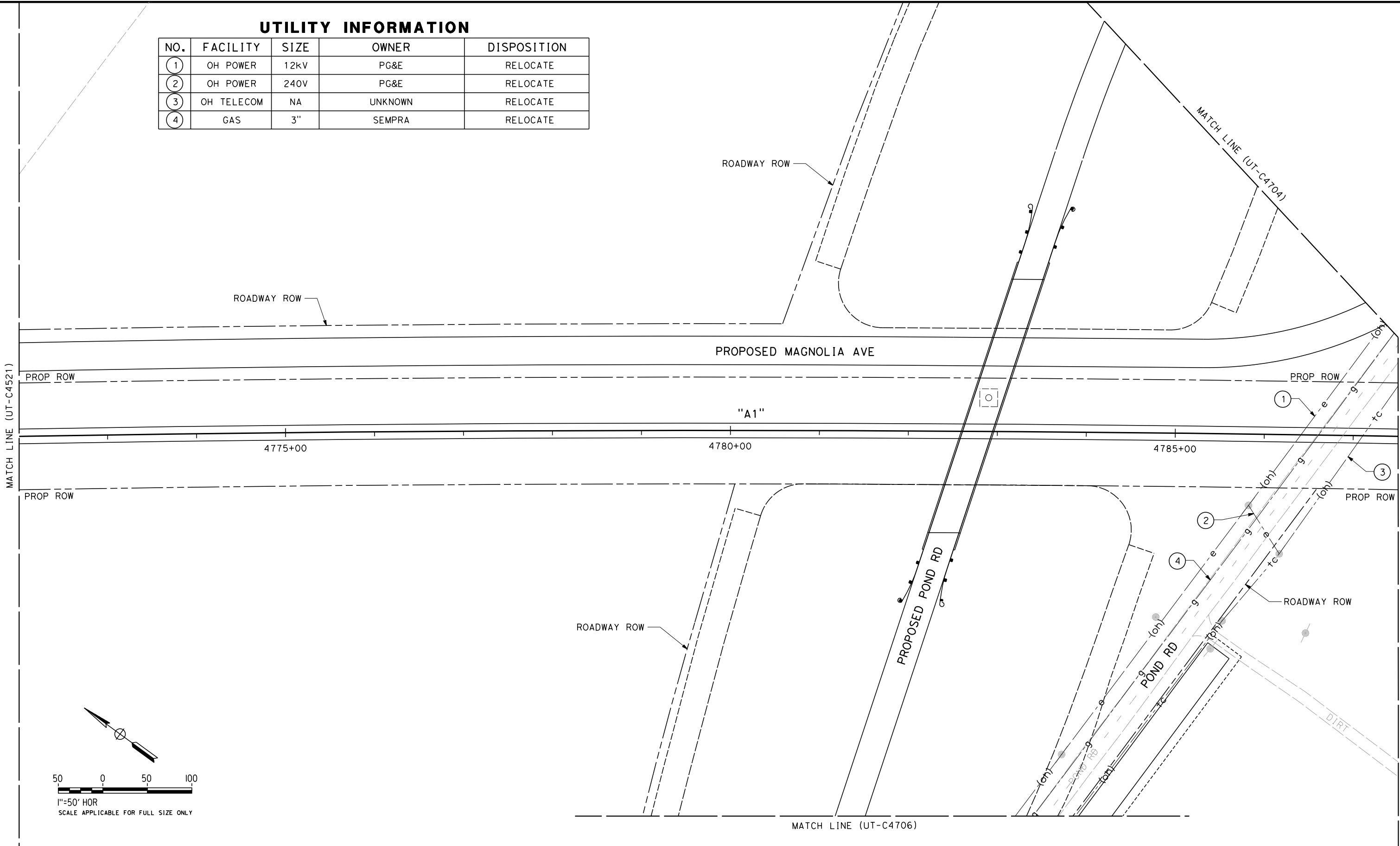


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ORT52801

UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER   | DISPOSITION |
|-----|------------|------|---------|-------------|
| ①   | OH POWER   | 12kV | PG&E    | RELOCATE    |
| ②   | OH POWER   | 240V | PG&E    | RELOCATE    |
| ③   | OH TELECOM | NA   | UNKNOWN | RELOCATE    |
| ④   | GAS        | 3"   | SEMPRA  | RELOCATE    |



RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

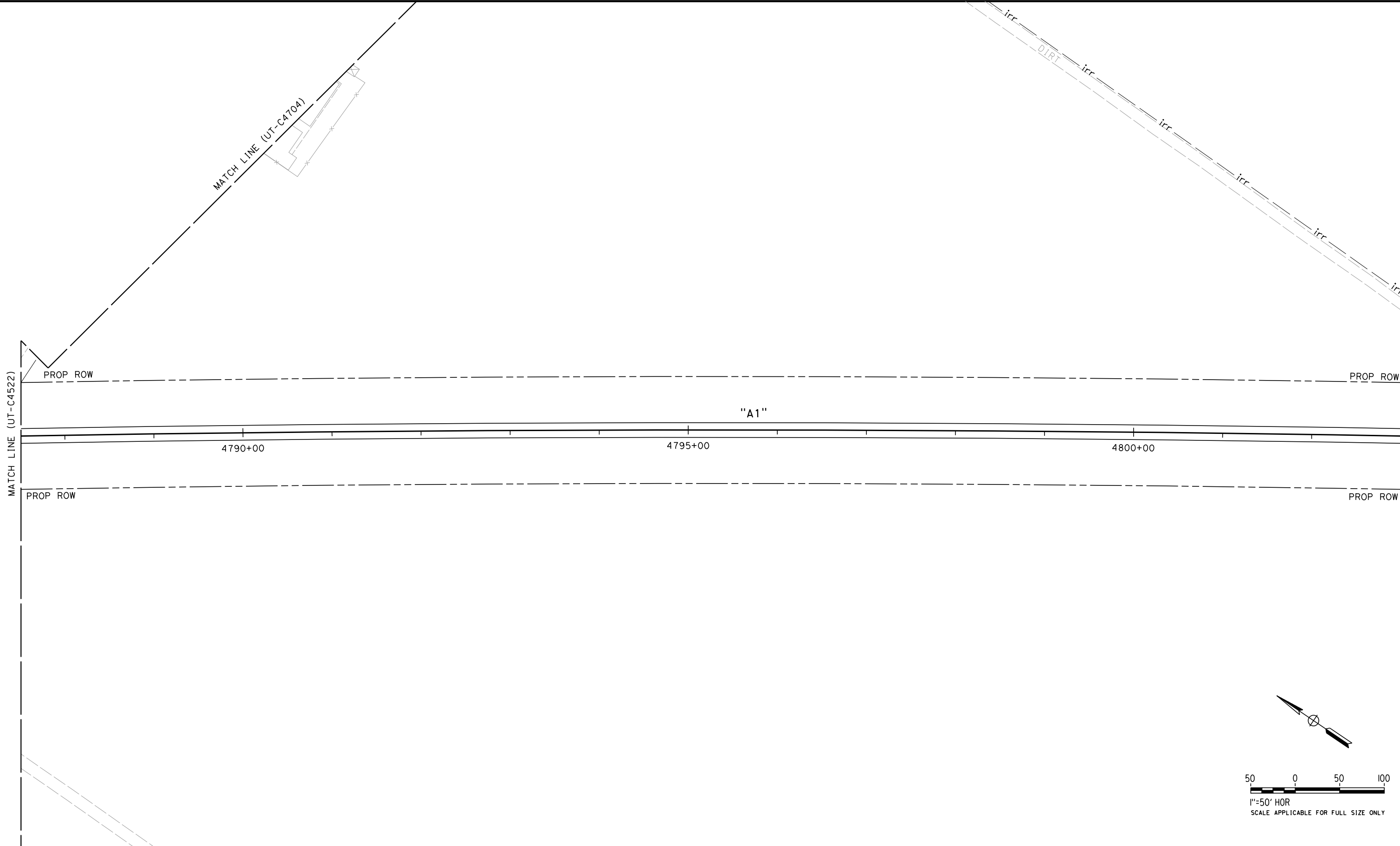
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4772+00 TO 4787+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4522     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>31 OF 163      |



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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4787+50 TO 4803+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4523     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>32 OF 163      |

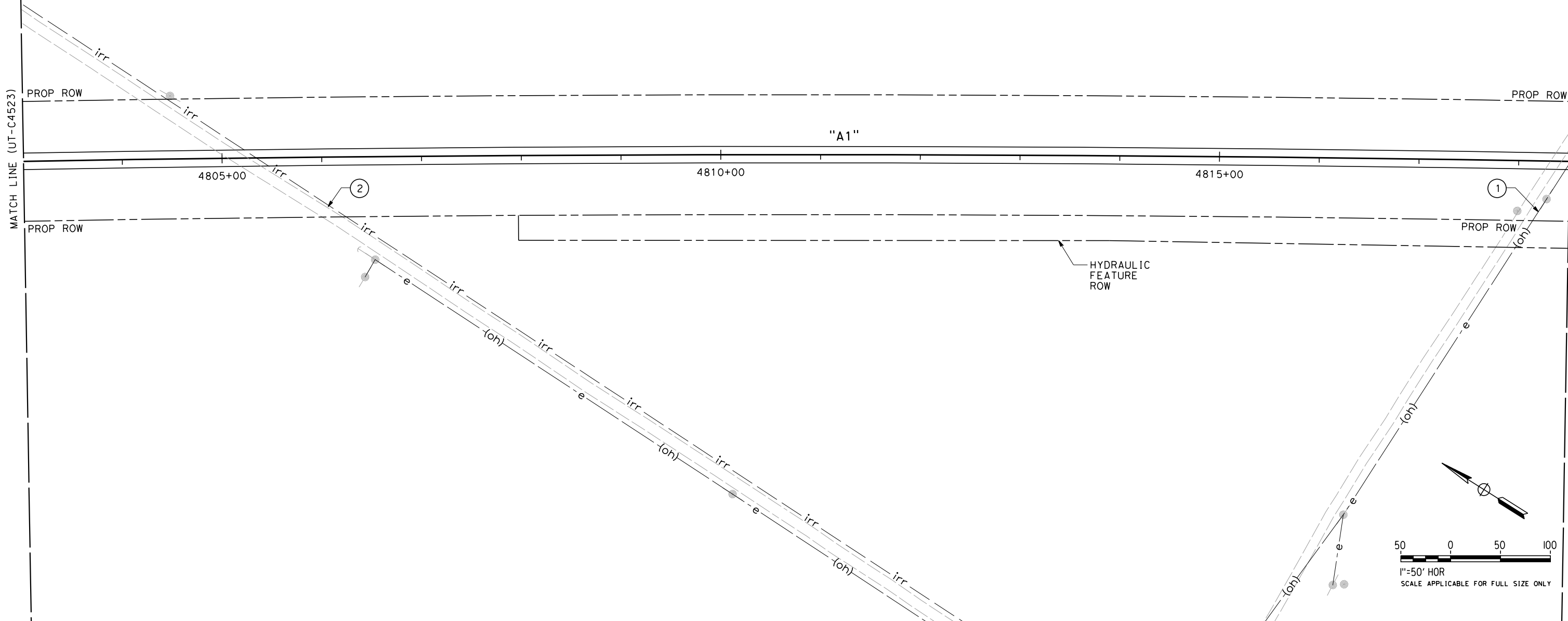
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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| ①   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ②   | IRRIGATION | 18"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



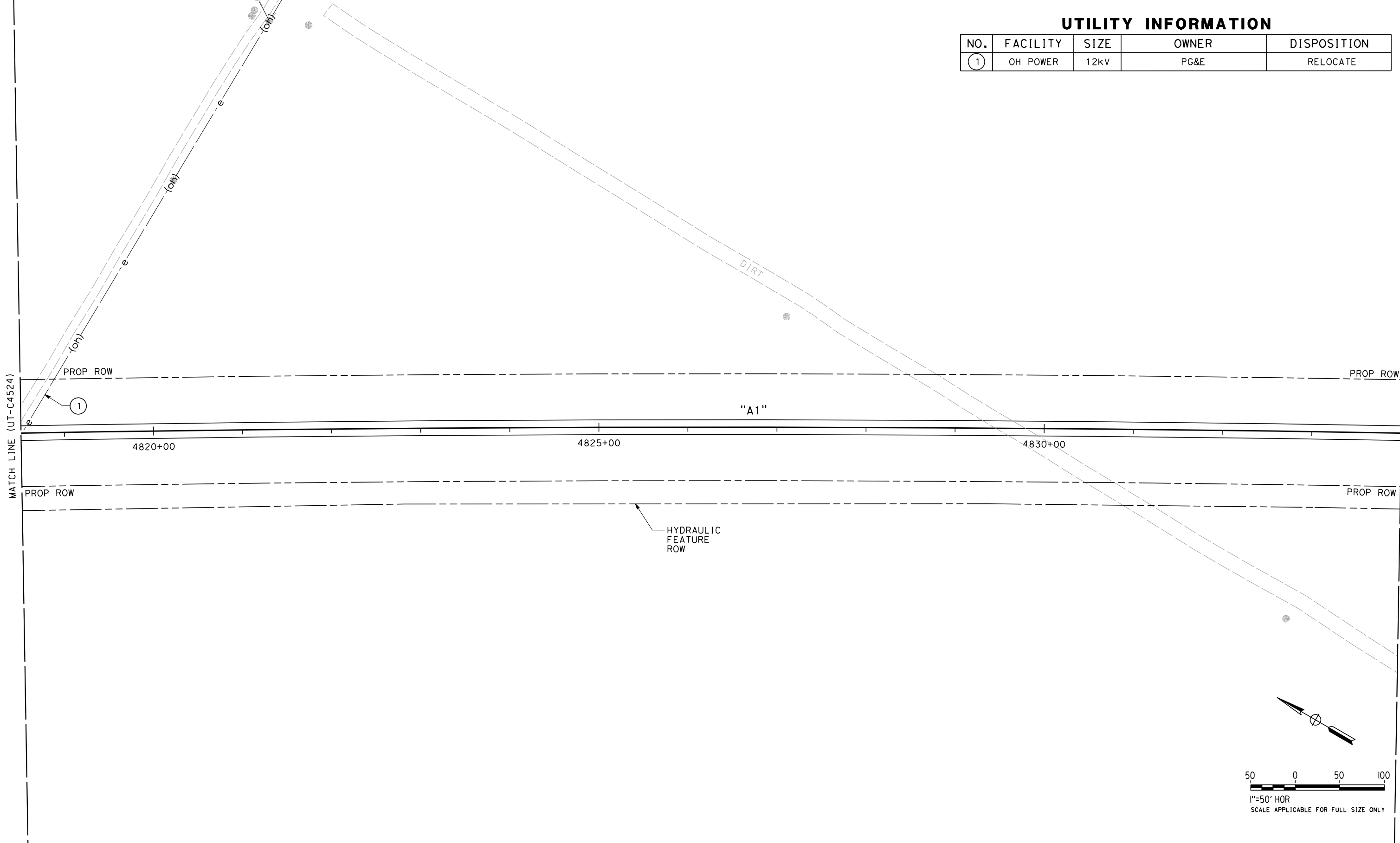
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4803+00 TO 4818+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4524     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>33 OF 163      |

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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| 1   | OH POWER | 12kV | PG&E  | RELOCATE    |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4818+50 TO 4834+00

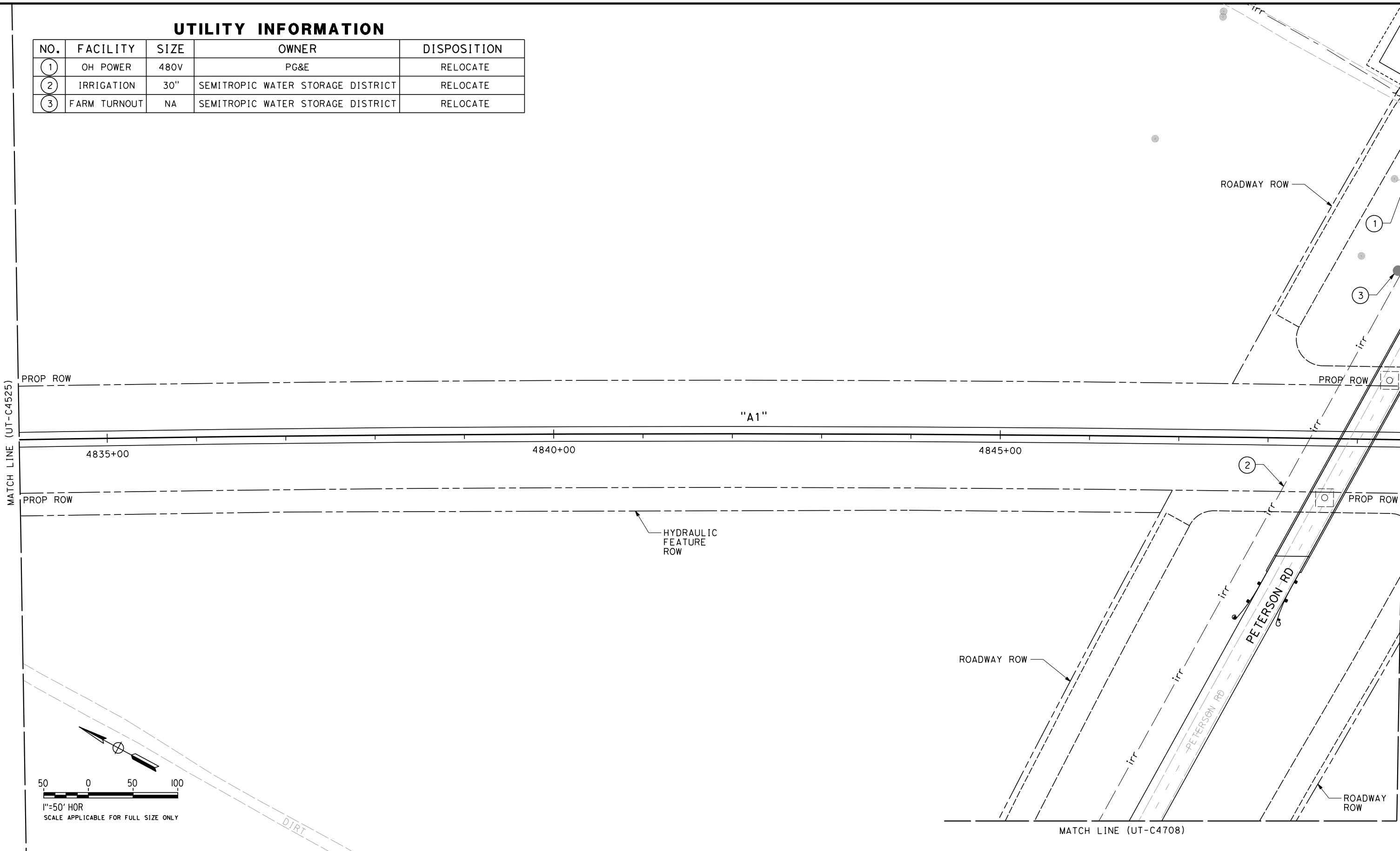
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4525     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>34 OF 163      |

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

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UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION |
|-----|--------------|------|-----------------------------------|-------------|
| ①   | OH POWER     | 480V | PG&E                              | RELOCATE    |
| ②   | IRRIGATION   | 30"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ③   | FARM TURNOUT | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA  
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4834+00 TO 4849+50

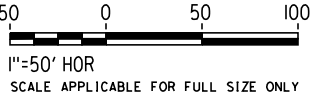
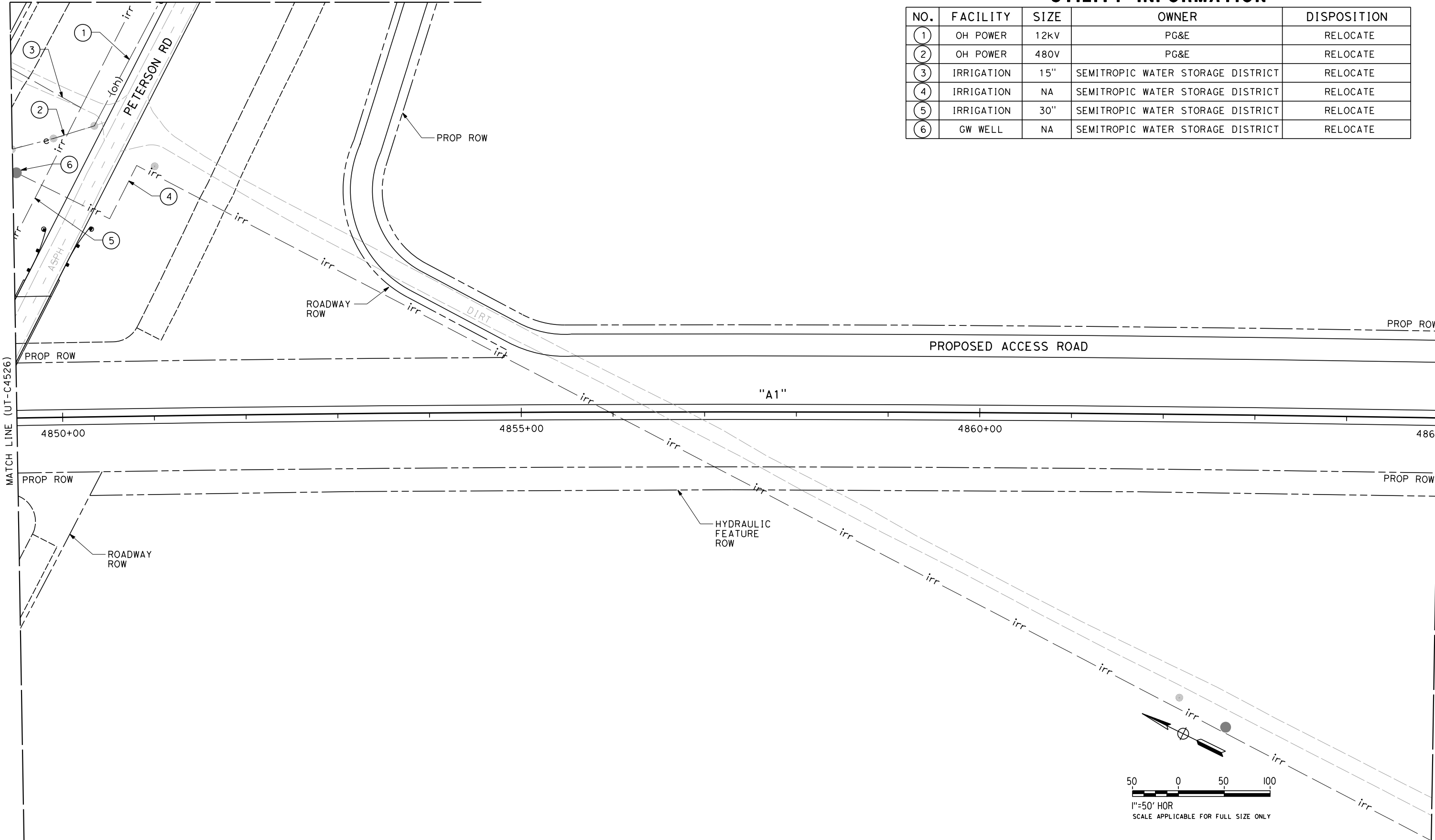
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4526     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>35 OF 163      |

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MATCH LINE (UT-C4710)

UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| 1   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| 2   | OH POWER   | 480V | PG&E                              | RELOCATE    |
| 3   | IRRIGATION | 15"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| 4   | IRRIGATION | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| 5   | IRRIGATION | 30"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| 6   | GW WELL    | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
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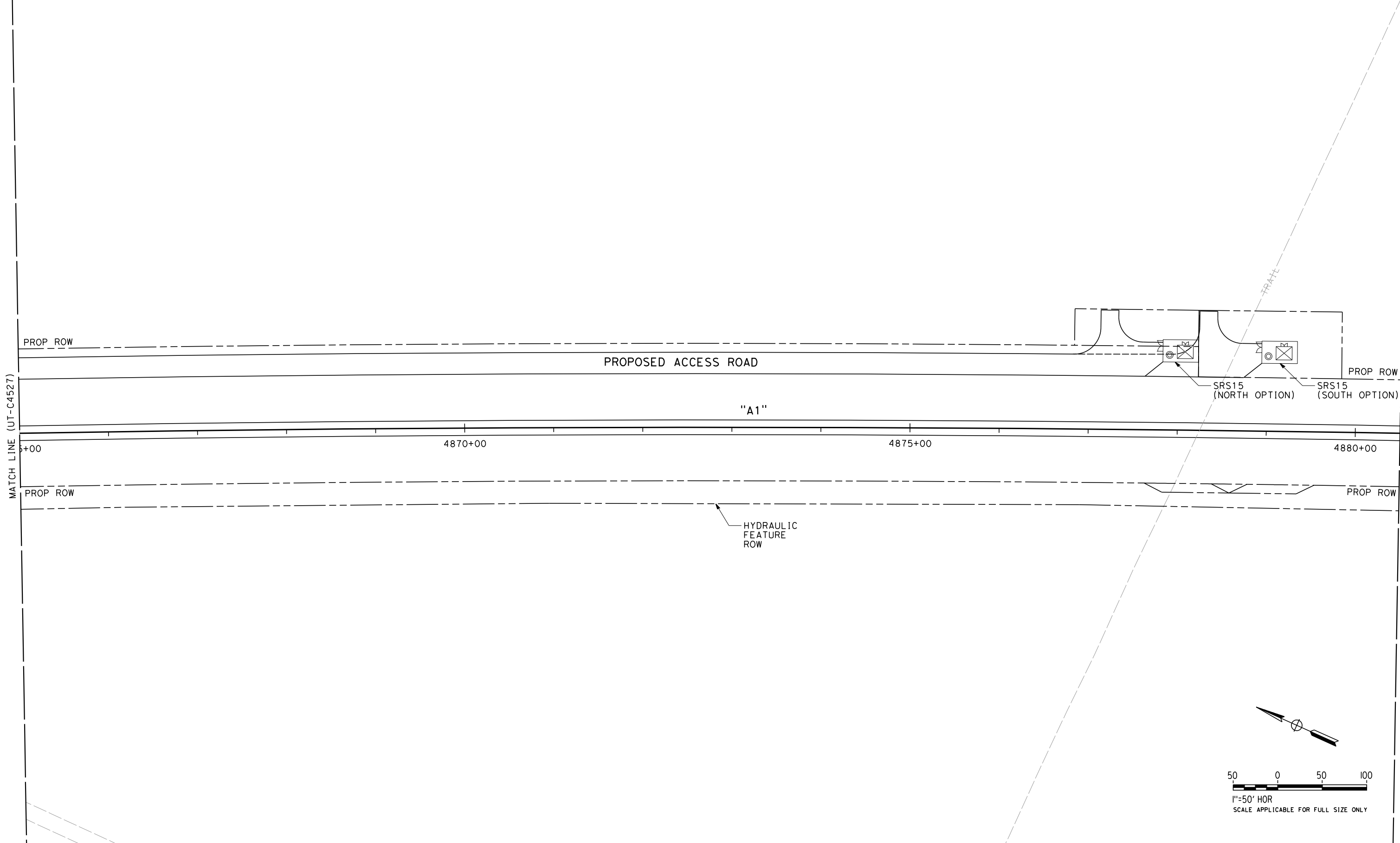


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4849+50 TO 4865+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4527     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>36 OF 163      |

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4865+00 TO 4880+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4528     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>37 OF 163      |

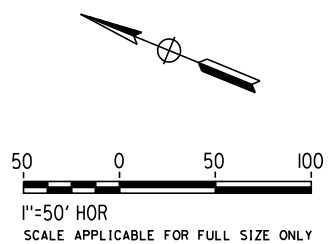
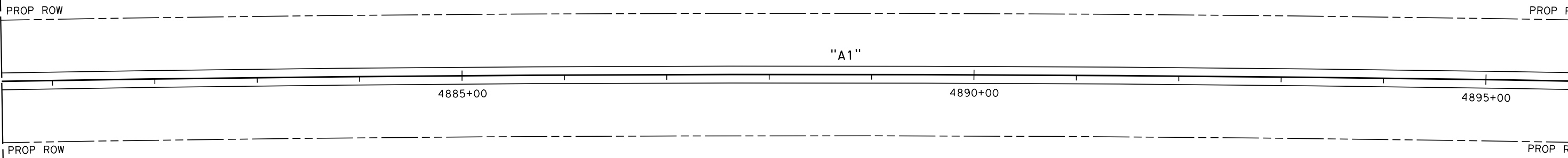
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ORT52801

MATCH LINE (UT-C4528)

MATCH LINE (UT-C4530)



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4880+50 TO 4896+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4529     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>38 OF 163      |

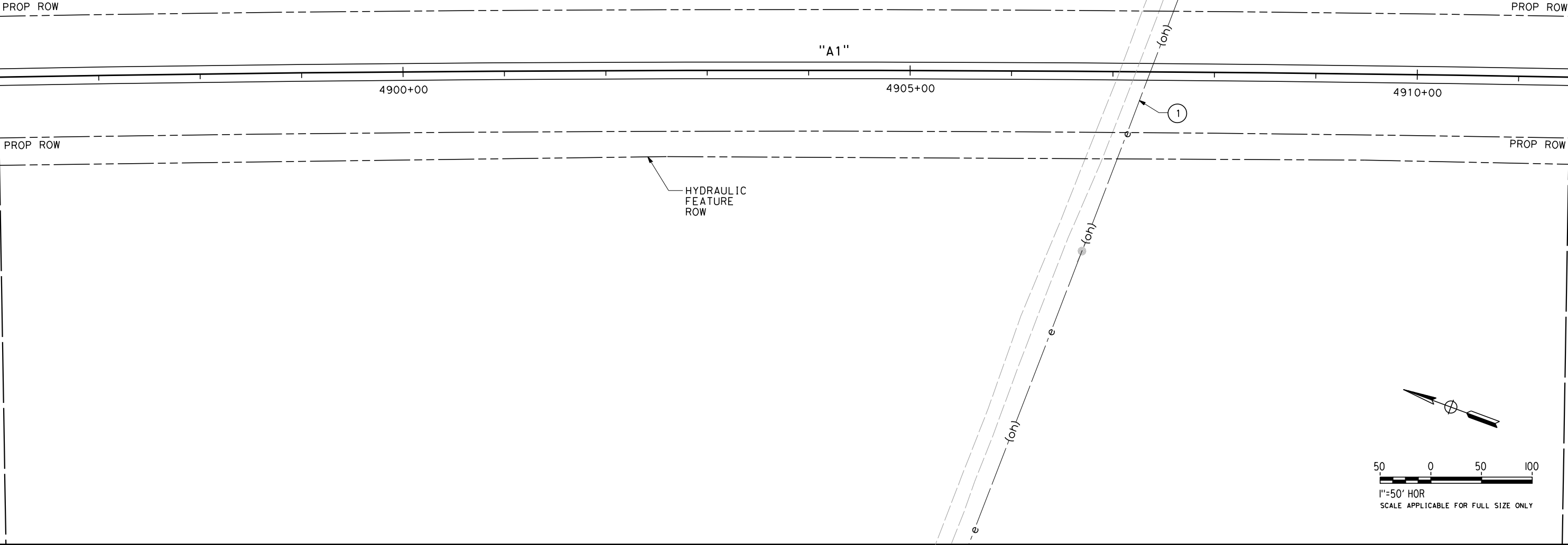
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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| ①   | OH POWER | 12kv | PG&E  | RELOCATE    |

MATCH LINE (UT-C4529)



MATCH LINE (UT-C4531)

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 4896+00 TO 4911+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4530     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>39 OF 163      |

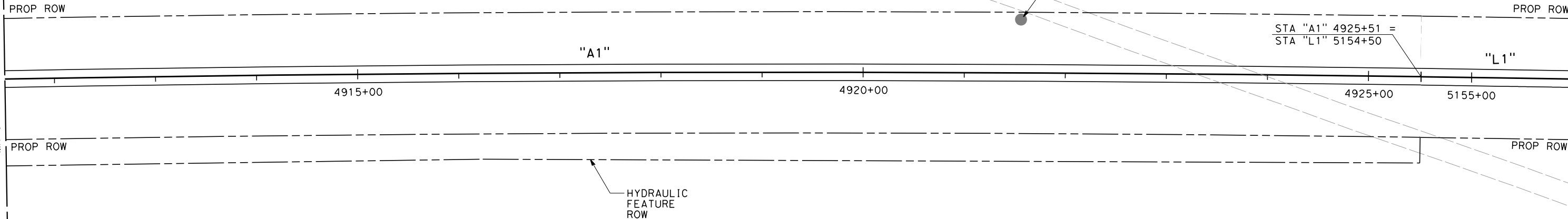


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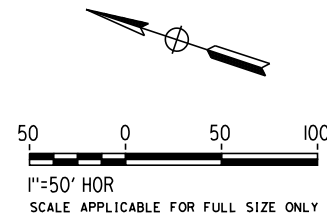
UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER   | DISPOSITION |
|-----|----------|------|---------|-------------|
| ①   | UNKNOWN  | NA   | UNKNOWN | REMOVE      |

MATCH LINE (UT-C4530)



MATCH LINE (UT-C4532)



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION

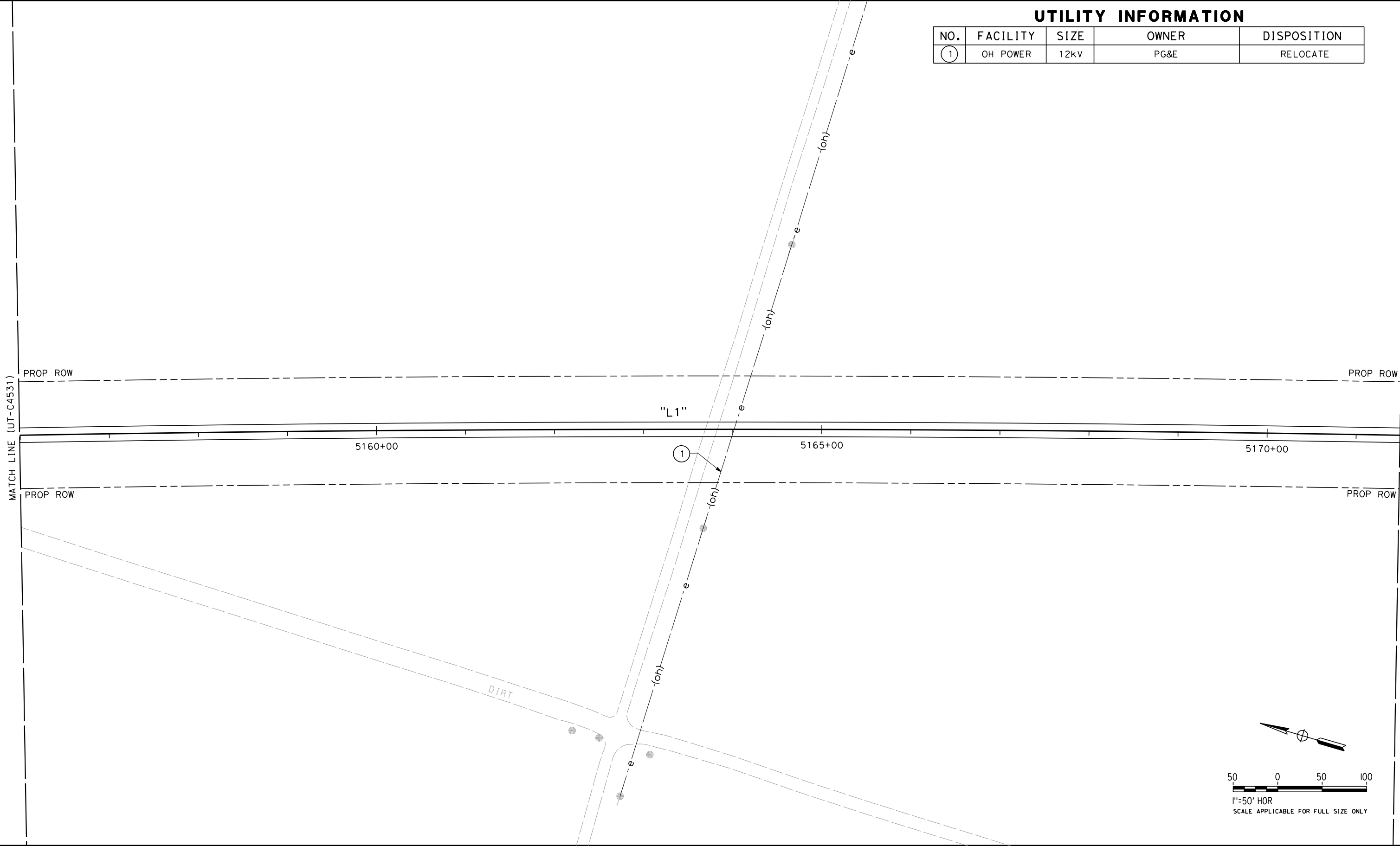


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENTS A1 & L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA A1 4911+50 TO 4925+51, STA L1 5154+50 TO 5156+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4531     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>40 OF 163      |

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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



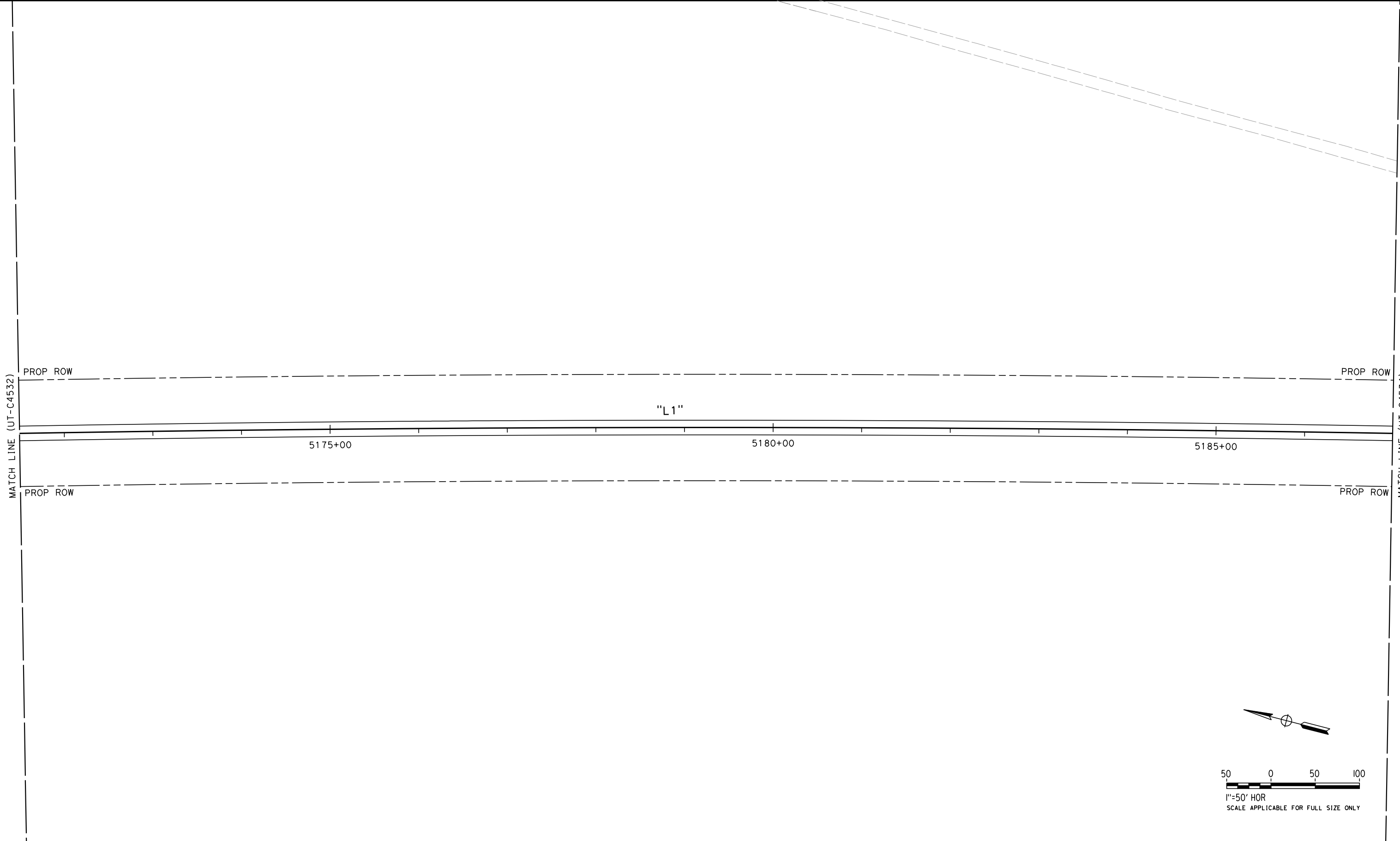
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5156+00 TO 5171+50

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4532  
SCALE  
AS SHOWN  
SHEET NO.  
41 OF 163

REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



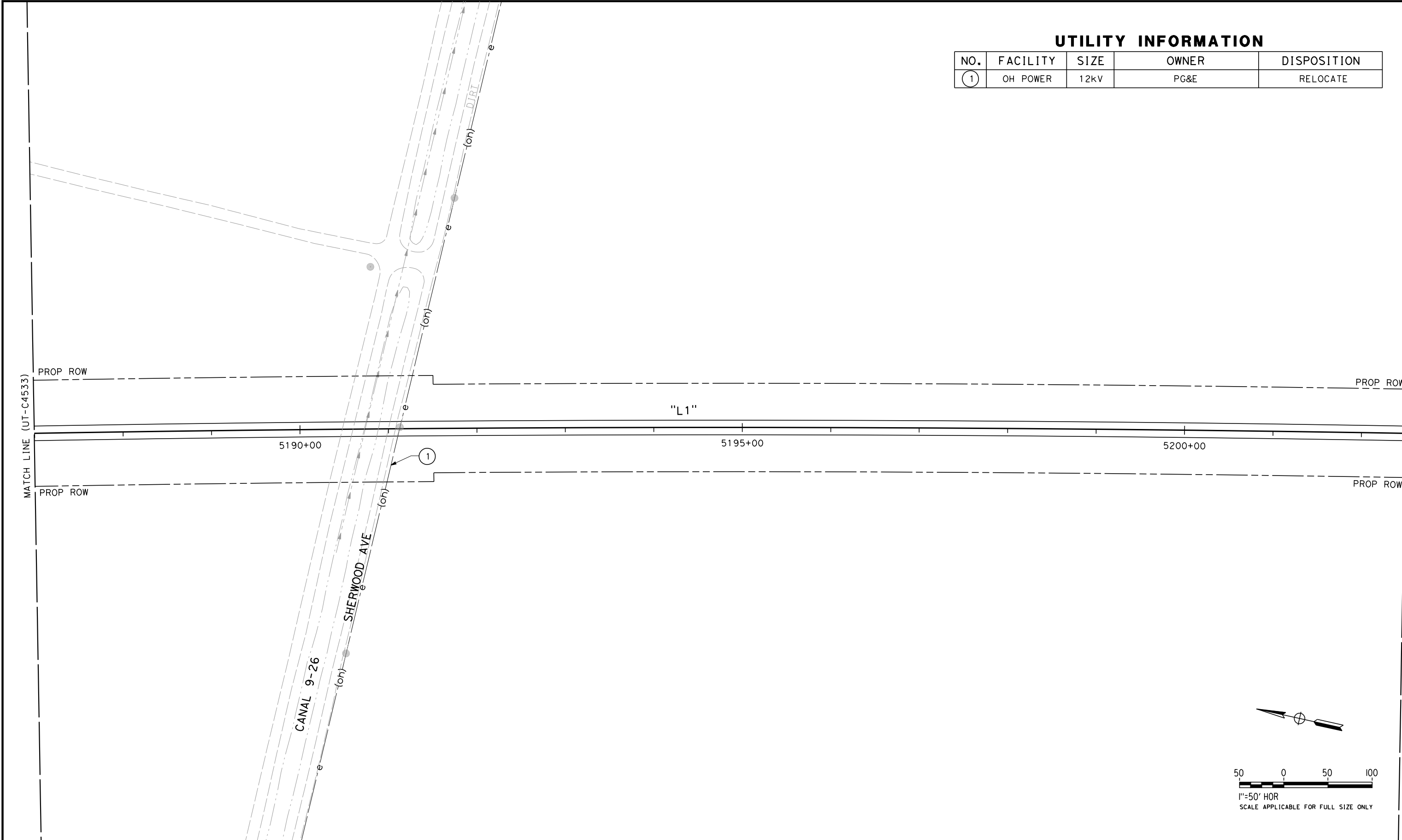
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5171+50 TO 5187+00

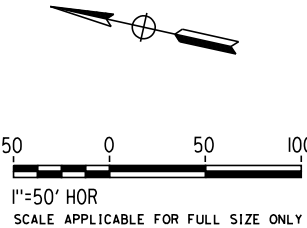
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4533     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>42 OF 163      |

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| UTILITY INFORMATION |          |      |       |             |
|---------------------|----------|------|-------|-------------|
| NO.                 | FACILITY | SIZE | OWNER | DISPOSITION |
| 1                   | OH POWER | 12kV | PG&E  | RELOCATE    |



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| DESIGNED BY | T. RAMIL   |
| DRAWN BY    | V. ORTEGA  |
| CHECKED BY  | T. GRAU    |
| IN CHARGE   | S. BURGESS |
| DATE        | 09/30/14   |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5187+00 TO 5202+50

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| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO.  | UT-C4534    |
| SCALE        | AS SHOWN    |
| SHEET NO.    | 43 OF 163   |

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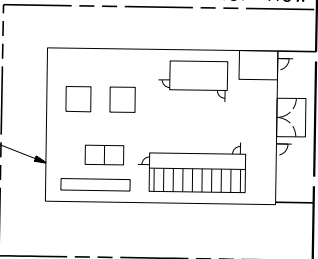
MATCH LINE (UT-C4534)

MATCH LINE (UT-C4536)

UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER   | DISPOSITION |
|-----|----------|------|---------|-------------|
| ①   | GAS      | 6"   | UNKNOWN | RELOCATE    |

PS532 BLANKENSHIP PS  
(NORTH OPTION)



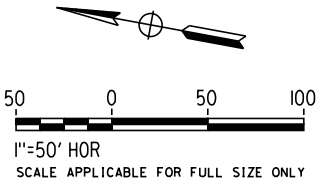
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5205+00

5210+00

5215+00

①



BLANKENSHIP AVE

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



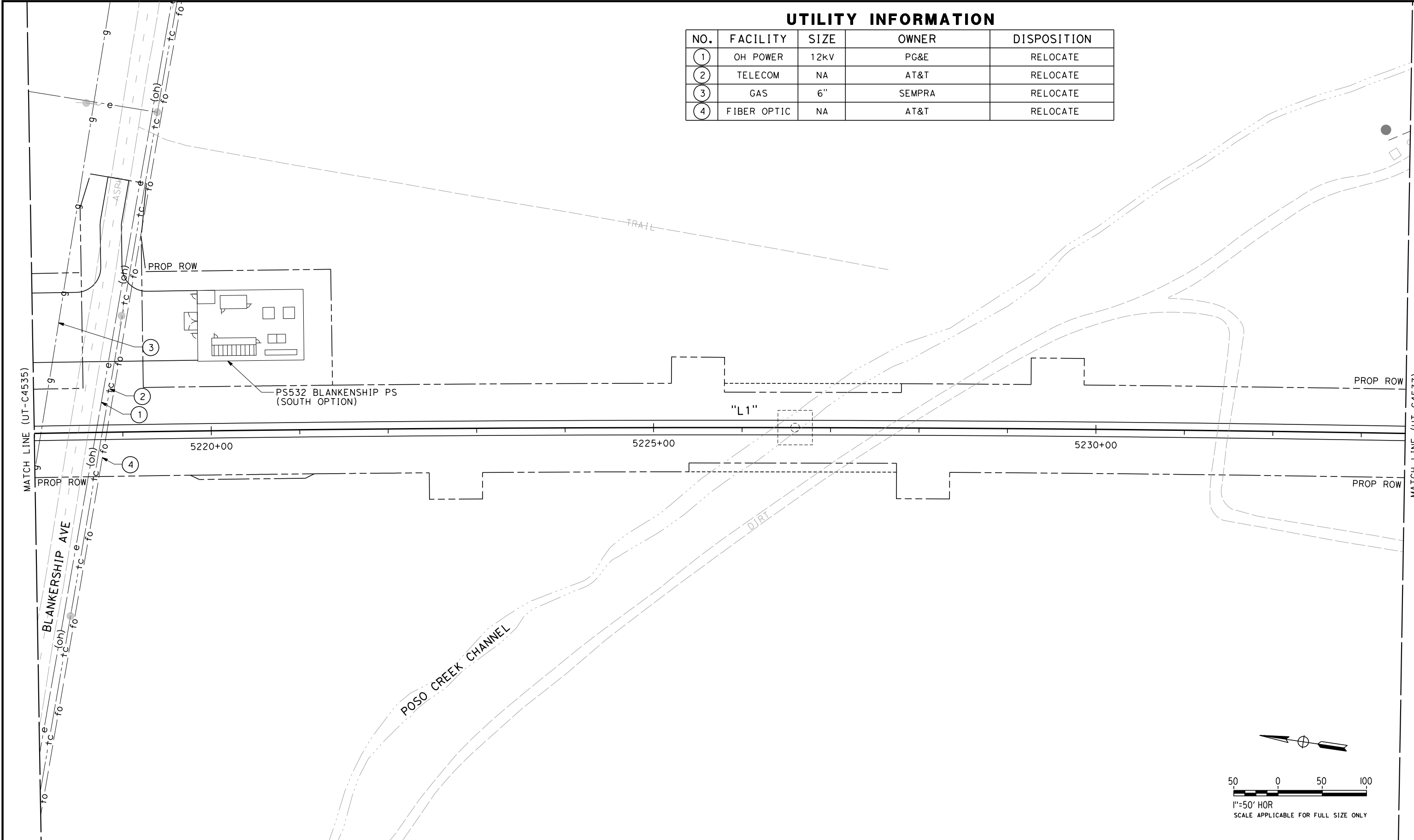
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5202+50 TO 5218+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4535     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>44 OF 163      |

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

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### UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER  | DISPOSITION |
|-----|-------------|------|--------|-------------|
| ①   | OH POWER    | 12kV | PG&E   | RELOCATE    |
| ②   | TELECOM     | NA   | AT&T   | RELOCATE    |
| ③   | GAS         | 6"   | SEMPRA | RELOCATE    |
| ④   | FIBER OPTIC | NA   | AT&T   | RELOCATE    |

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5218+00 TO 5233+50

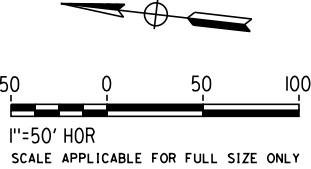
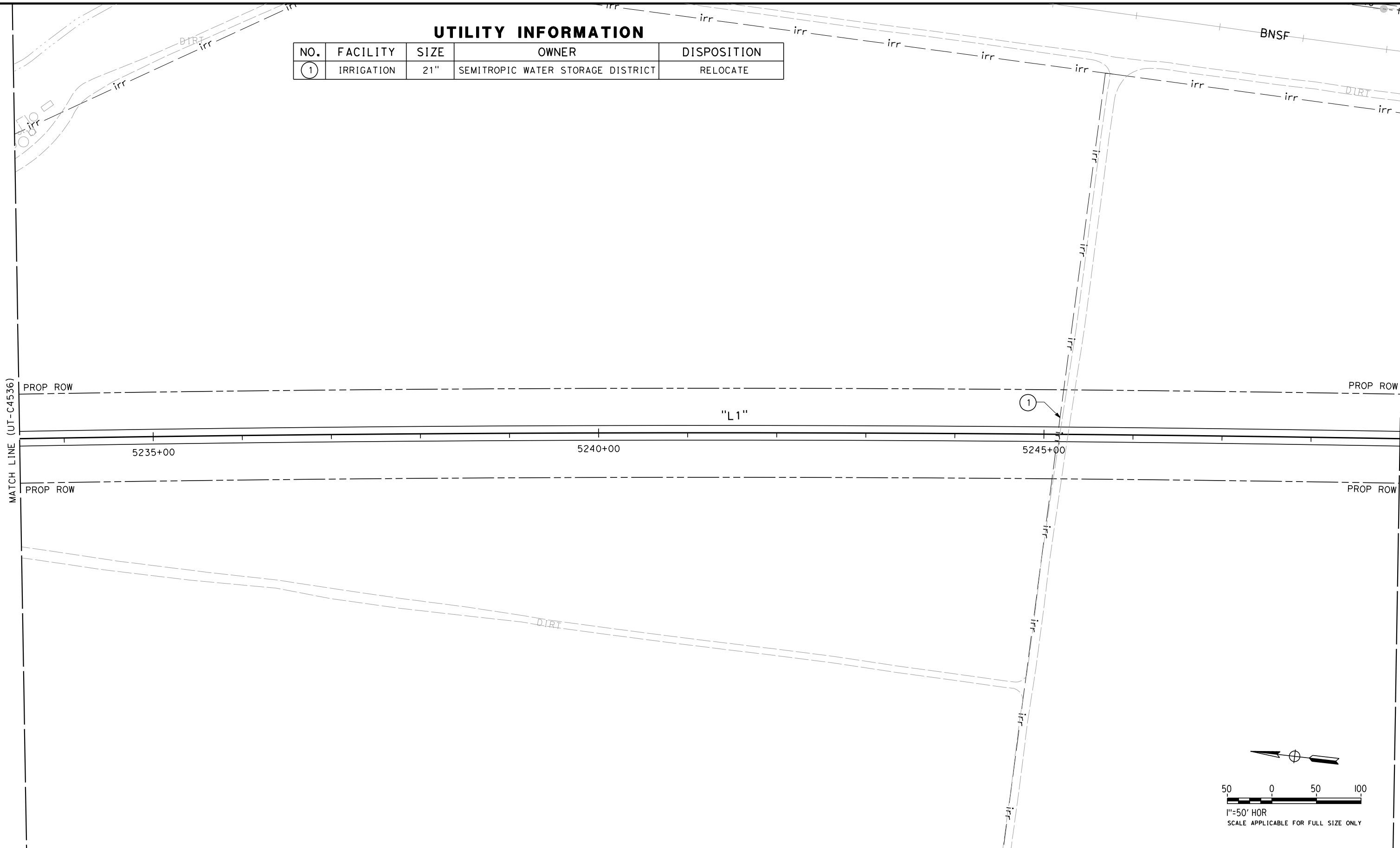
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4536     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>45 OF 163      |

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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| ①   | IRRIGATION | 21"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



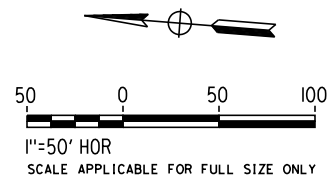
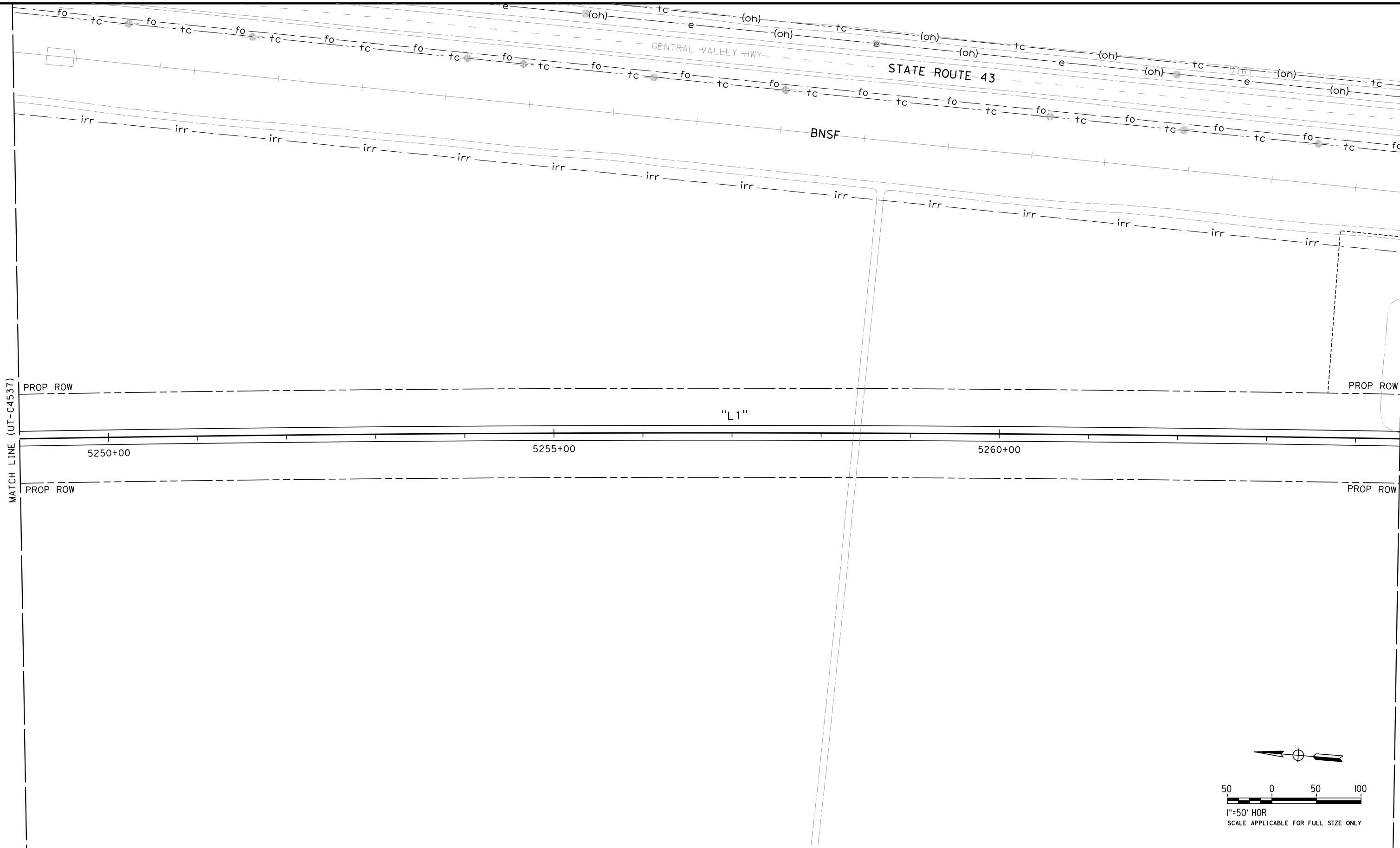
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5233+50 TO 5249+00

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4537     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>46 OF 163      |

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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

**PROPOSED  
PRELIMINARY  
DESIGN**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5249+00 TO 5264+50

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4538  
SCALE  
AS SHOWN  
SHEET NO.  
47 OF 163

RFP No. HSR 14-32 - INITIAL RELEASE - 05/27/2015



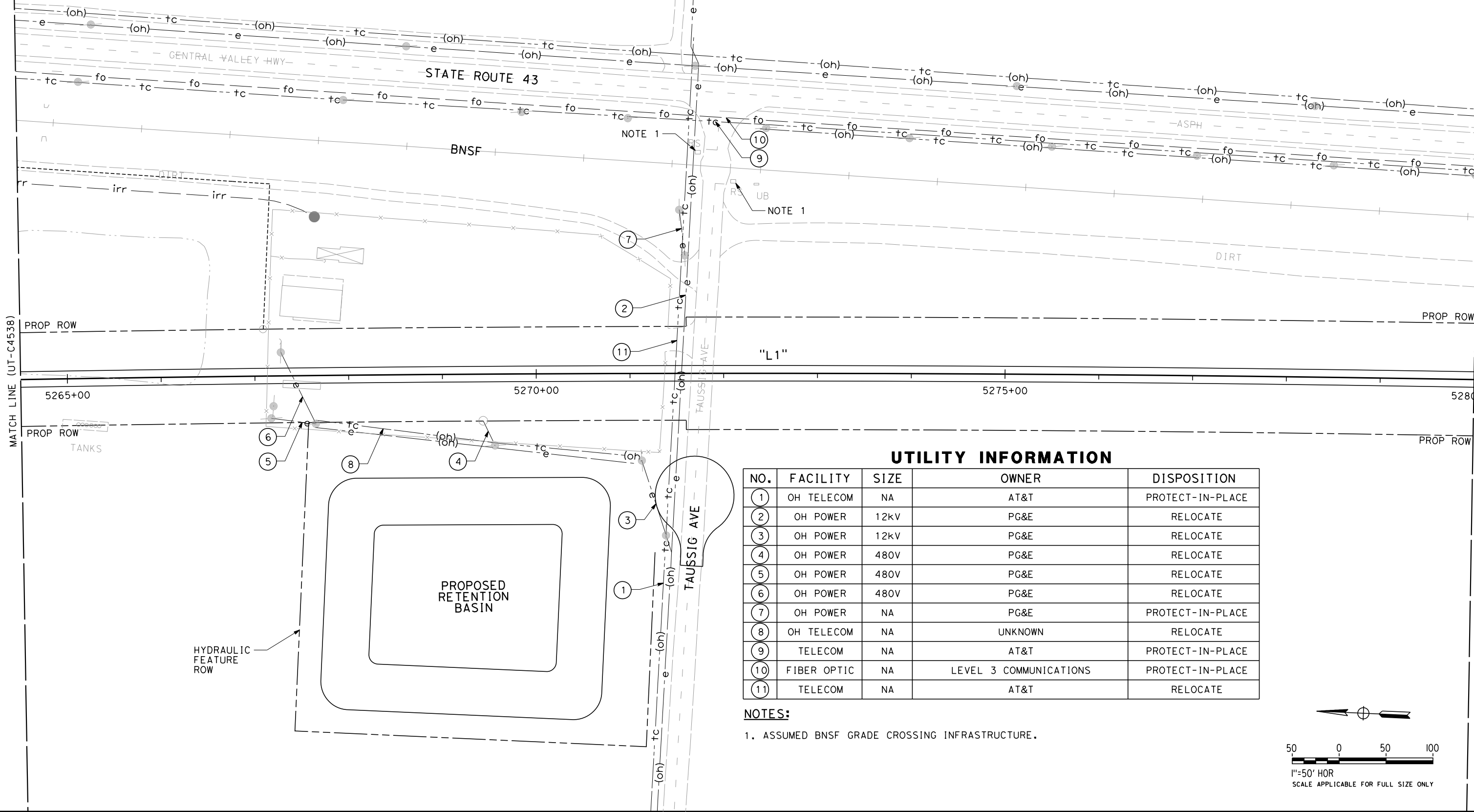
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MATCH LINE (UT-C4538)

MATCH LINE (UT-C4540)

RFP No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

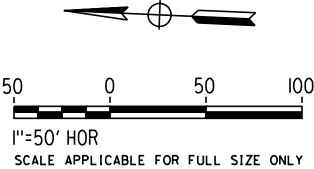


UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER                  | DISPOSITION      |
|-----|-------------|------|------------------------|------------------|
| 1   | OH TELECOM  | NA   | AT&T                   | PROTECT-IN-PLACE |
| 2   | OH POWER    | 12kV | PG&E                   | RELOCATE         |
| 3   | OH POWER    | 12kV | PG&E                   | RELOCATE         |
| 4   | OH POWER    | 480V | PG&E                   | RELOCATE         |
| 5   | OH POWER    | 480V | PG&E                   | RELOCATE         |
| 6   | OH POWER    | 480V | PG&E                   | RELOCATE         |
| 7   | OH POWER    | NA   | PG&E                   | PROTECT-IN-PLACE |
| 8   | OH TELECOM  | NA   | UNKNOWN                | RELOCATE         |
| 9   | TELECOM     | NA   | AT&T                   | PROTECT-IN-PLACE |
| 10  | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATIONS | PROTECT-IN-PLACE |
| 11  | TELECOM     | NA   | AT&T                   | RELOCATE         |

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.



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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
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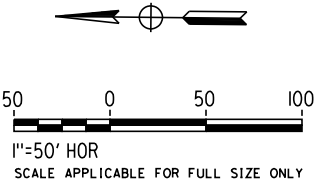
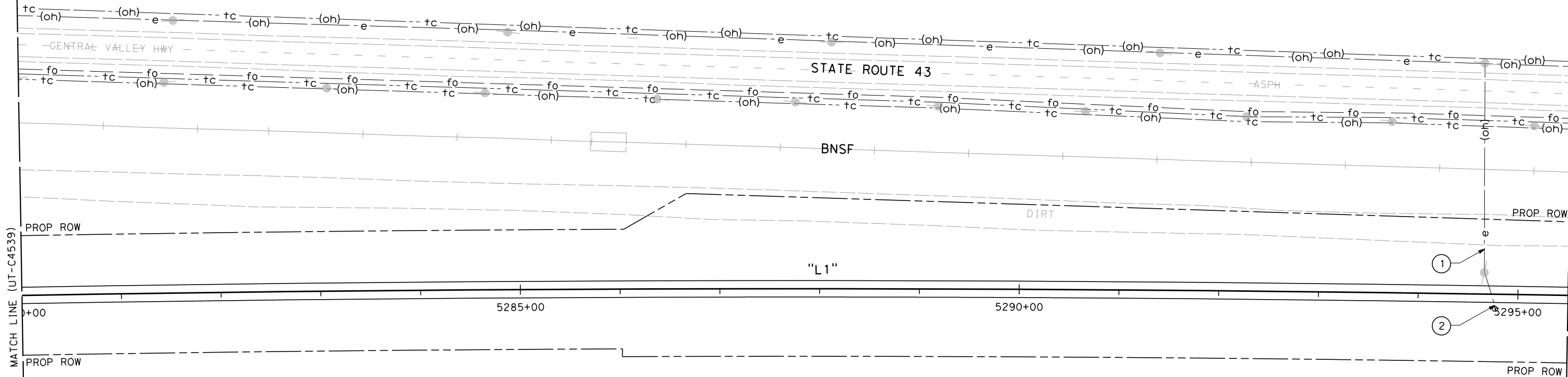
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5264+50 TO 5280+00

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4539  
SCALE  
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SHEET NO.  
48 OF 163

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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| ①   | OH POWER | 12kV | PG&E  | RELOCATE    |
| ②   | OH POWER | NA   | PG&E  | RELOCATE    |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

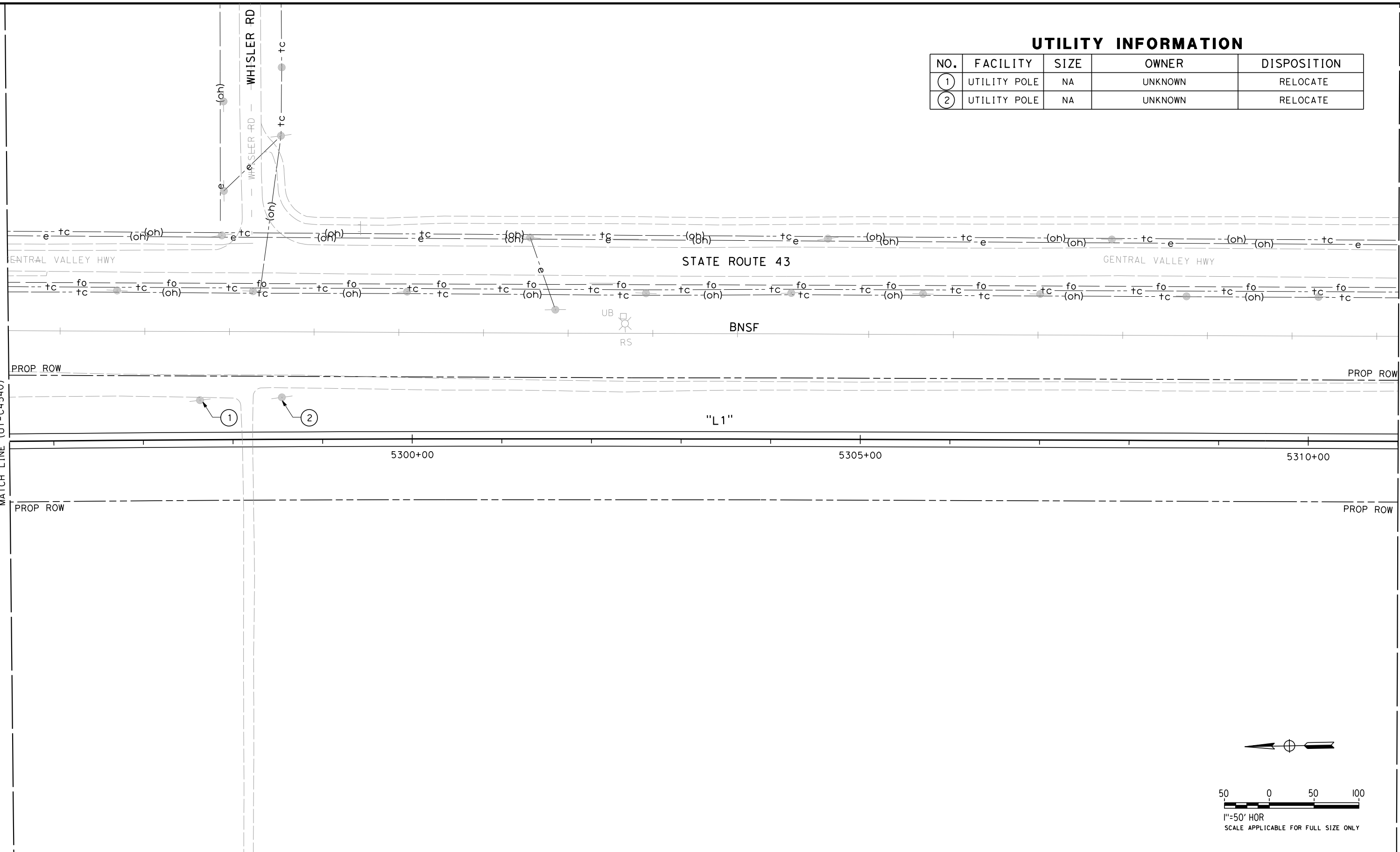
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CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5280+00 TO 5295+50

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4540     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>49 OF 163      |

| NO. | FACILITY     | SIZE | OWNER   | DISPOSITION |
|-----|--------------|------|---------|-------------|
| ①   | UTILITY POLE | NA   | UNKNOWN | RELOCATE    |
| ②   | UTILITY POLE | NA   | UNKNOWN | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA**  
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT L1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5295+50 TO 5311+00

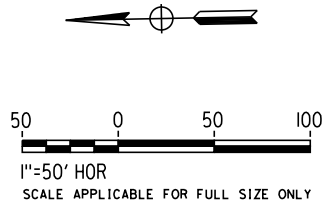
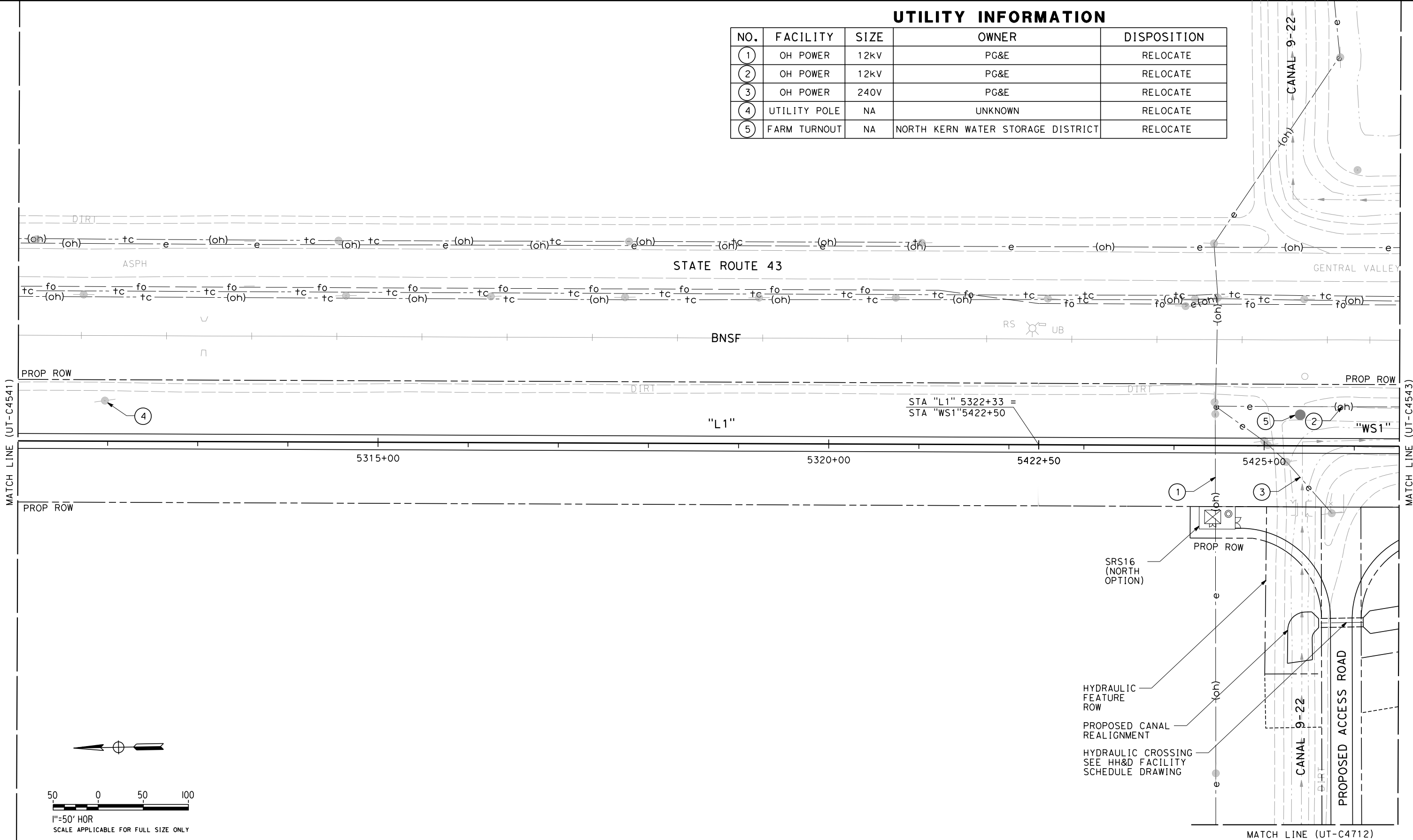
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| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO.  | UT-C4541    |
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| SHEET NO.    | 50 OF 163   |

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UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION |
|-----|--------------|------|-----------------------------------|-------------|
| ①   | OH POWER     | 12kV | PG&E                              | RELOCATE    |
| ②   | OH POWER     | 12kV | PG&E                              | RELOCATE    |
| ③   | OH POWER     | 240V | PG&E                              | RELOCATE    |
| ④   | UTILITY POLE | NA   | UNKNOWN                           | RELOCATE    |
| ⑤   | FARM TURNOUT | NA   | NORTH KERN WATER STORAGE DISTRICT | RELOCATE    |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENTS L1 & WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA L1 5311+00 TO 5322+33, WS1 5422+50 TO 5426+50

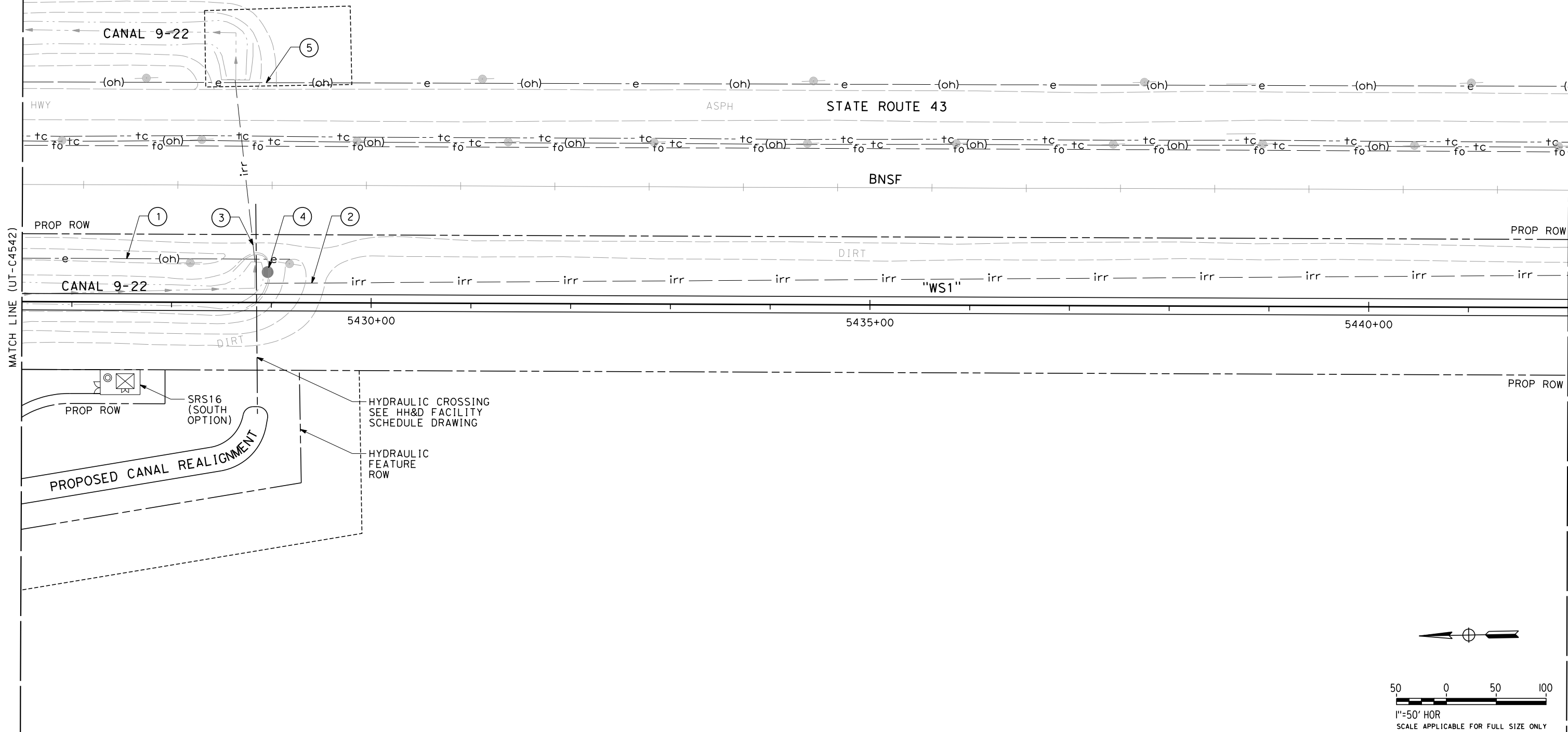
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| DRAWING NO.<br>UT-C4542     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>51 OF 163      |

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UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION      |
|-----|--------------|------|-----------------------------------|------------------|
| ①   | OH POWER     | 12kV | PG&E                              | RELOCATE         |
| ②   | IRRIGATION   | 18"  | NORTH KERN WATER STORAGE DISTRICT | RELOCATE         |
| ③   | IRRIGATION   | NA   | NORTH KERN WATER STORAGE DISTRICT | RELOCATE         |
| ④   | FARM TURNOUT | NA   | NORTH KERN WATER STORAGE DISTRICT | RELOCATE         |
| ⑤   | OH POWER     | NA   | PG&E                              | PROTECT-IN-PLACE |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5426+50 TO 5442+00

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4543     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>52 OF 163      |

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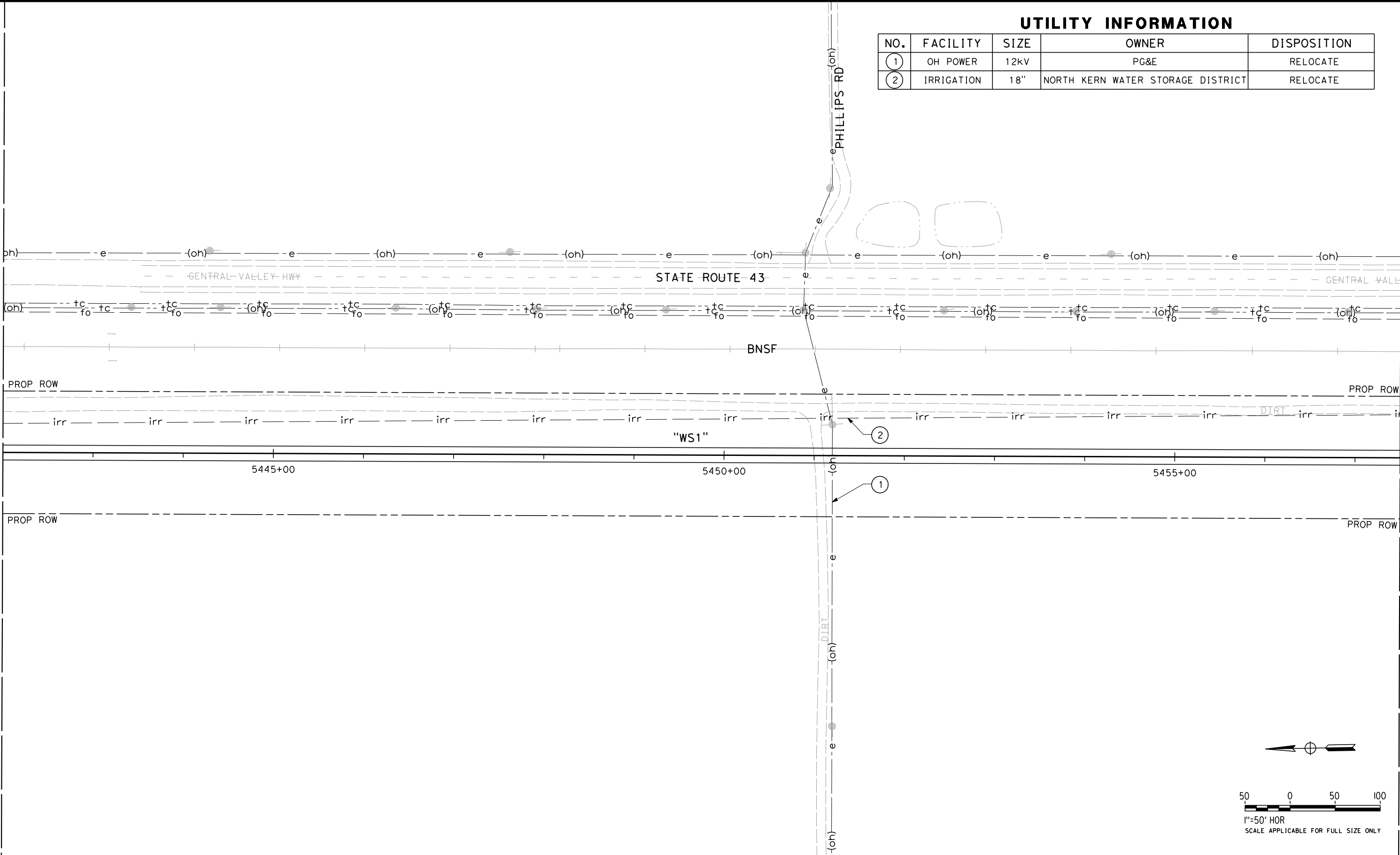
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MATCH LINE (UT-C4543)

MATCH LINE (UT-C4545)

UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| ①   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ②   | IRRIGATION | 18"  | NORTH KERN WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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|-------------------------|
| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1

UTILITIES

COMPOSITE UTILITY PLAN

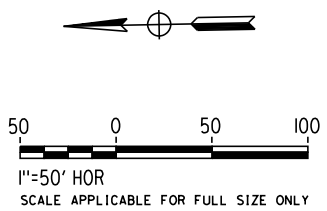
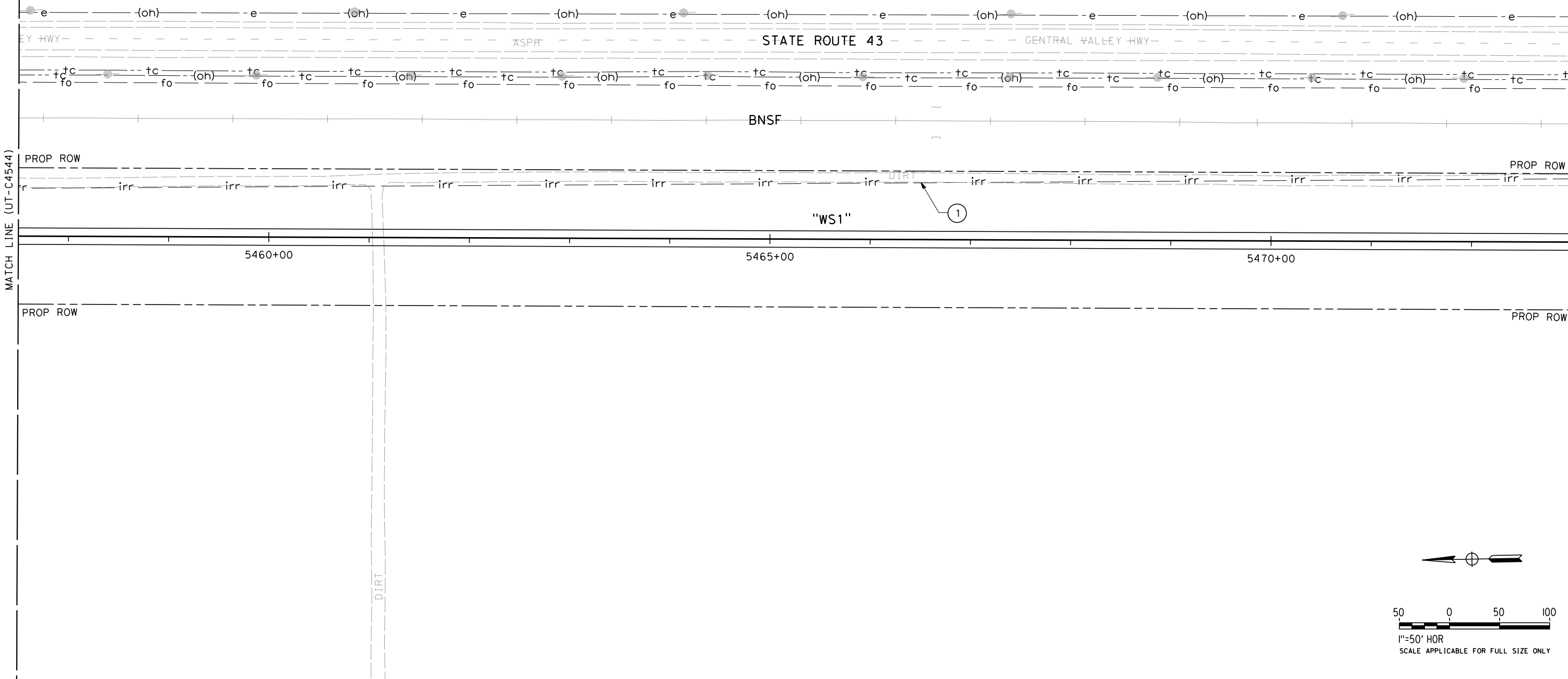
STA 5442+00 TO 5457+50



|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4544     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>53 OF 163      |

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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| 1   | IRRIGATION | 18"  | NORTH KERN WATER STORAGE DISTRICT | RELOCATE    |



| <div>DESIGNED BY<br/>T. RAMIL</div> <div>DRAWN BY<br/>V. ORTEGA</div> <div>CHECKED BY<br/>T. GRAU</div> <div>IN CHARGE<br/>S. BURGESS</div> <div>DATE<br/>09/30/14</div>  |      |      |     |     |             | <div>PROPOSED<br/>PRELIMINARY<br/>DESIGN</div> <div>NOT FOR<br/>CONSTRUCTION</div> |   | <div>CALIFORNIA HIGH-SPEED TRAIN PROJECT<br/>FRESNO TO BAKERSFIELD</div> <div>PACKAGE 4 - ALIGNMENT WS1</div> <div>UTILITIES</div> <div>COMPOSITE UTILITY PLAN</div> <div>STA 5457+50 TO 5473+00</div> | <div>CONTRACT NO.<br/>HSR 06-0003</div> <div>DRAWING NO.<br/>UT-C4545</div> <div>SCALE<br/>AS SHOWN</div> <div>SHEET NO.<br/>54 OF 163</div> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| <table border="1"><thead><tr><th>REV</th><th>DATE</th><th>BY</th><th>CHK</th><th>APP</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></tbody></table> | REV  | DATE | BY  | CHK | APP         |  |   |  | DESCRIPTION  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| REV   | DATE | BY   | CHK | APP | DESCRIPTION |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

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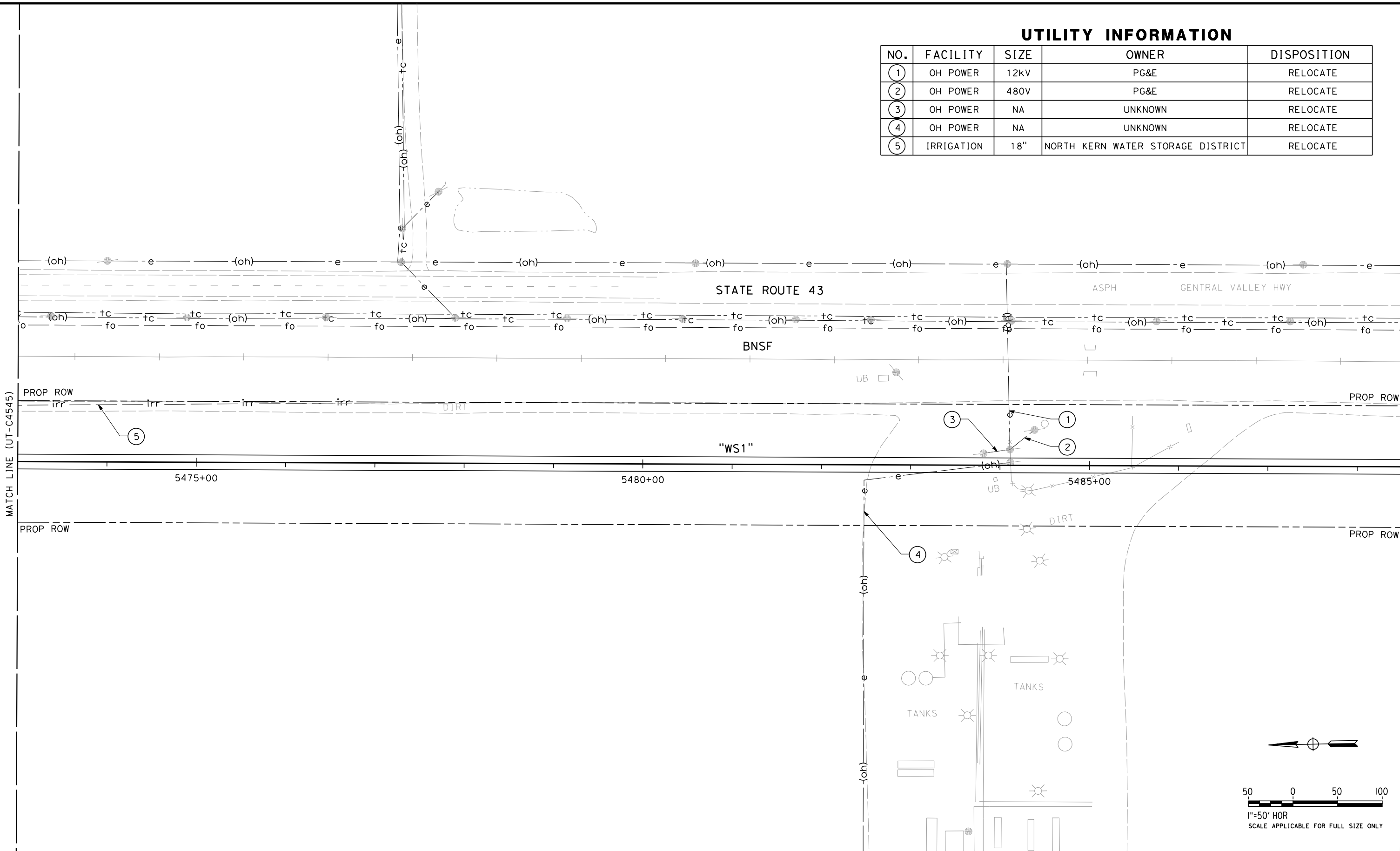
ORT52801

MATCH LINE (UT-C4545)

MATCH LINE (UT-C4547)

UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| ①   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ②   | OH POWER   | 480V | PG&E                              | RELOCATE    |
| ③   | OH POWER   | NA   | UNKNOWN                           | RELOCATE    |
| ④   | OH POWER   | NA   | UNKNOWN                           | RELOCATE    |
| ⑤   | IRRIGATION | 18"  | NORTH KERN WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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|                         |
|-------------------------|
| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5473+00 TO 5488+50

|                             |
|-----------------------------|
| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4546     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>55 OF 163      |

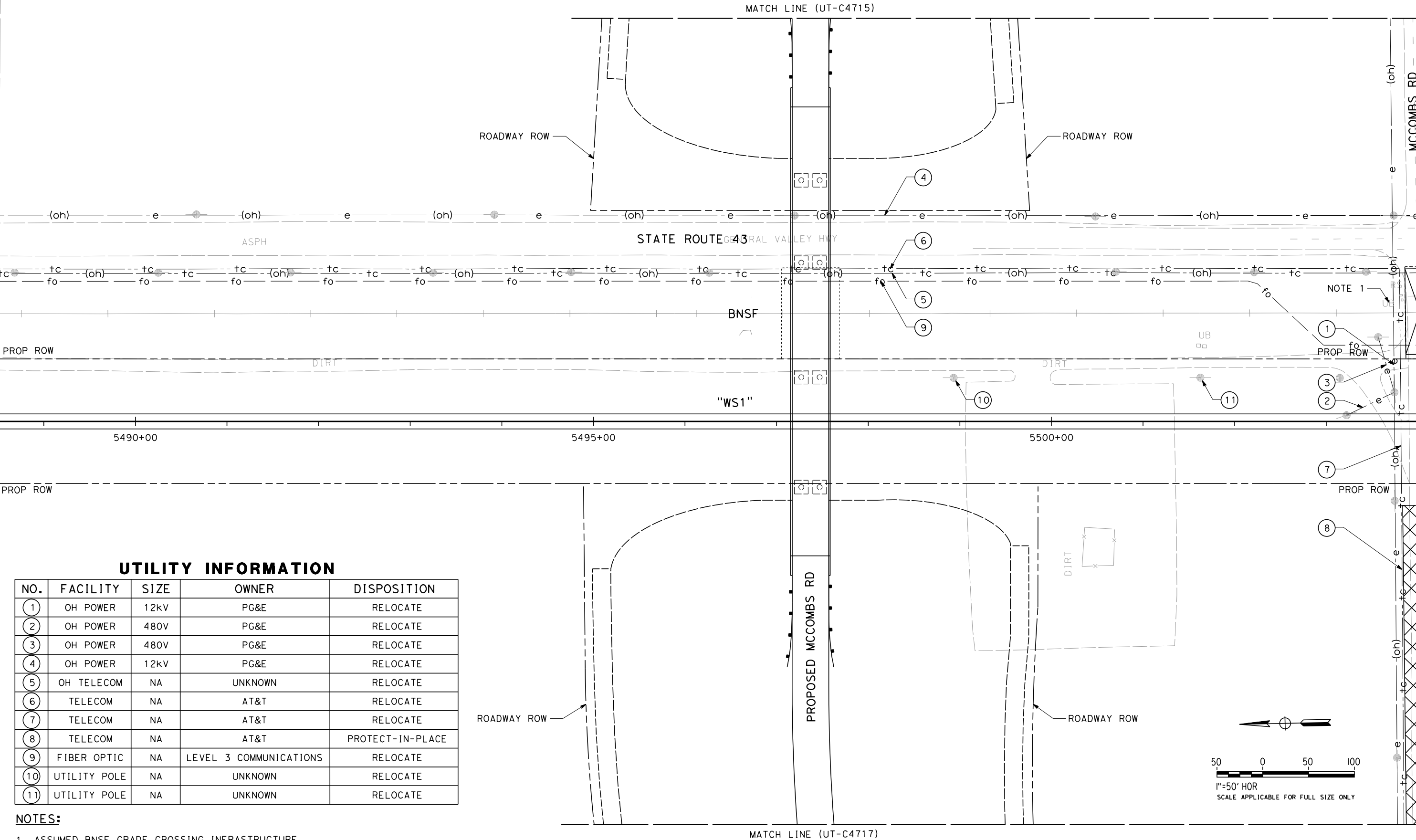


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ORT52801

MATCH LINE (UT-C4546)

MATCH LINE (UT-C4548)



UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                  | DISPOSITION      |
|-----|--------------|------|------------------------|------------------|
| 1   | OH POWER     | 12KV | PG&E                   | RELOCATE         |
| 2   | OH POWER     | 480V | PG&E                   | RELOCATE         |
| 3   | OH POWER     | 480V | PG&E                   | RELOCATE         |
| 4   | OH POWER     | 12KV | PG&E                   | RELOCATE         |
| 5   | OH TELECOM   | NA   | UNKNOWN                | RELOCATE         |
| 6   | TELECOM      | NA   | AT&T                   | RELOCATE         |
| 7   | TELECOM      | NA   | AT&T                   | RELOCATE         |
| 8   | TELECOM      | NA   | AT&T                   | PROTECT-IN-PLACE |
| 9   | FIBER OPTIC  | NA   | LEVEL 3 COMMUNICATIONS | RELOCATE         |
| 10  | UTILITY POLE | NA   | UNKNOWN                | RELOCATE         |
| 11  | UTILITY POLE | NA   | UNKNOWN                | RELOCATE         |

NOTES:  
1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

|                         |
|-------------------------|
| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
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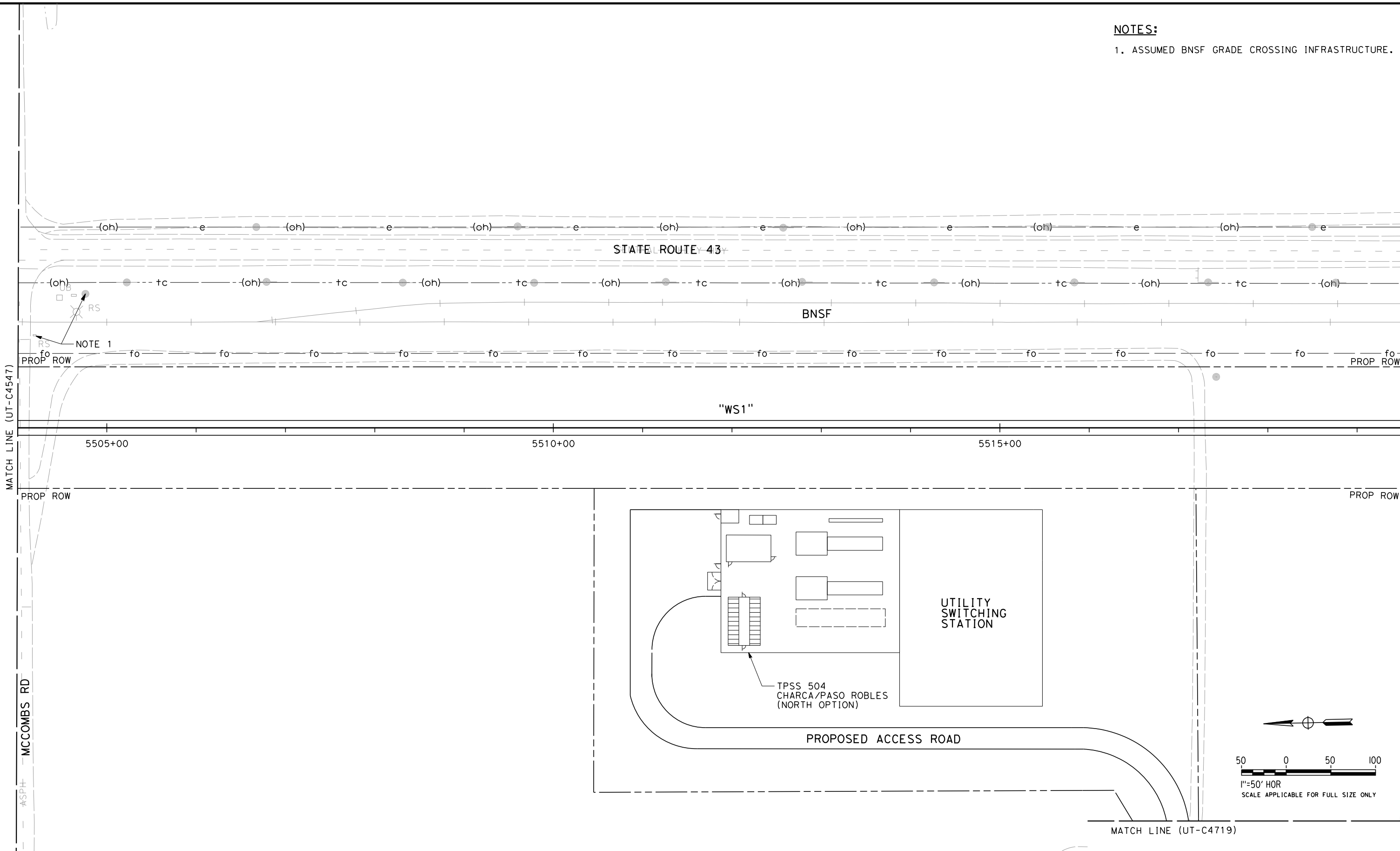


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5488+50 TO 5504+00

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4547     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>56 OF 163      |

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NOTES:  
1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

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| DRAWN BY<br>V. ORTEGA   |
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| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



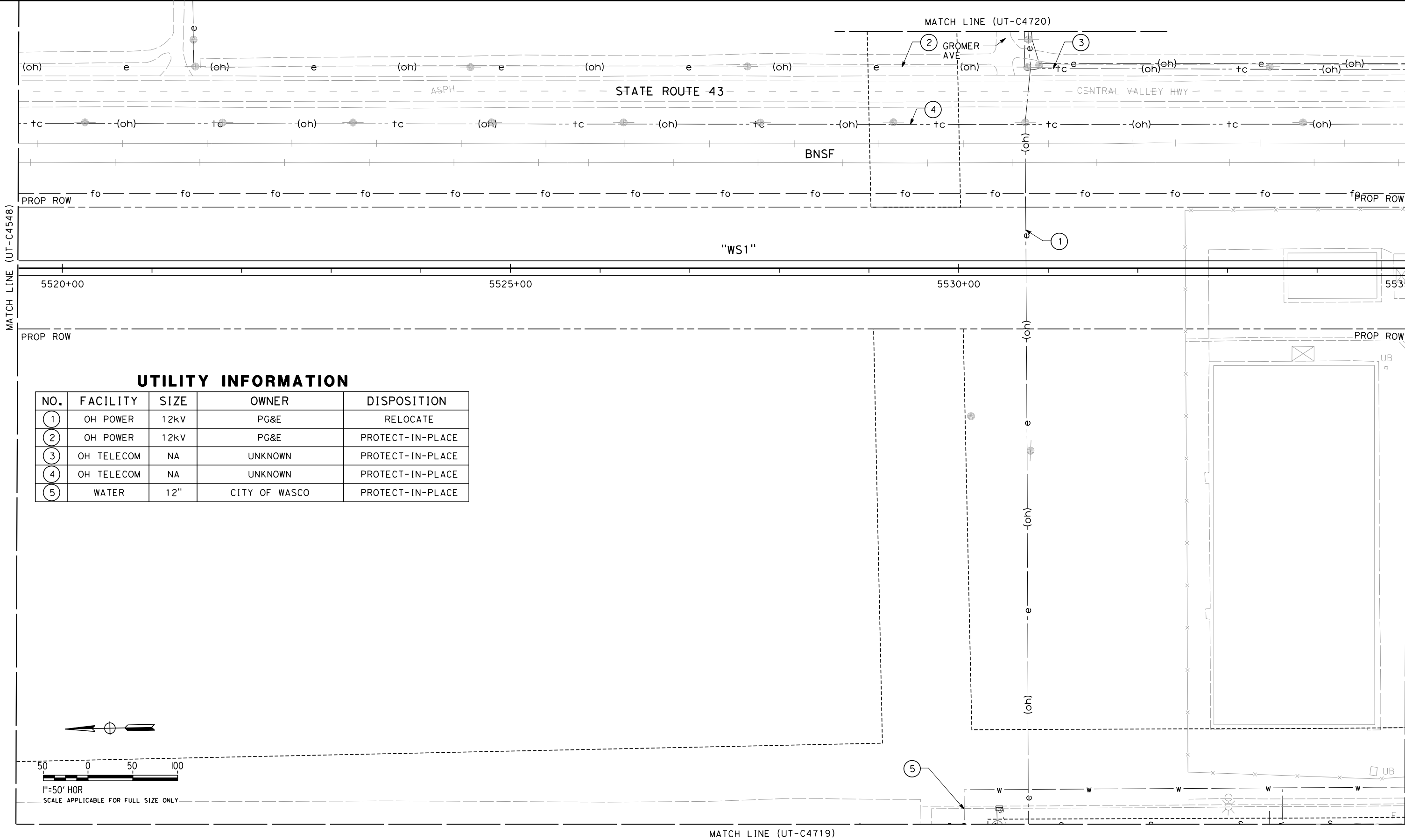
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5504+00 TO 5519+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4548     |
| SCALE<br>AS SHOWN           |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1

UTILITIES

COMPOSITE UTILITY PLAN

STA 5519+50 TO 5535+00

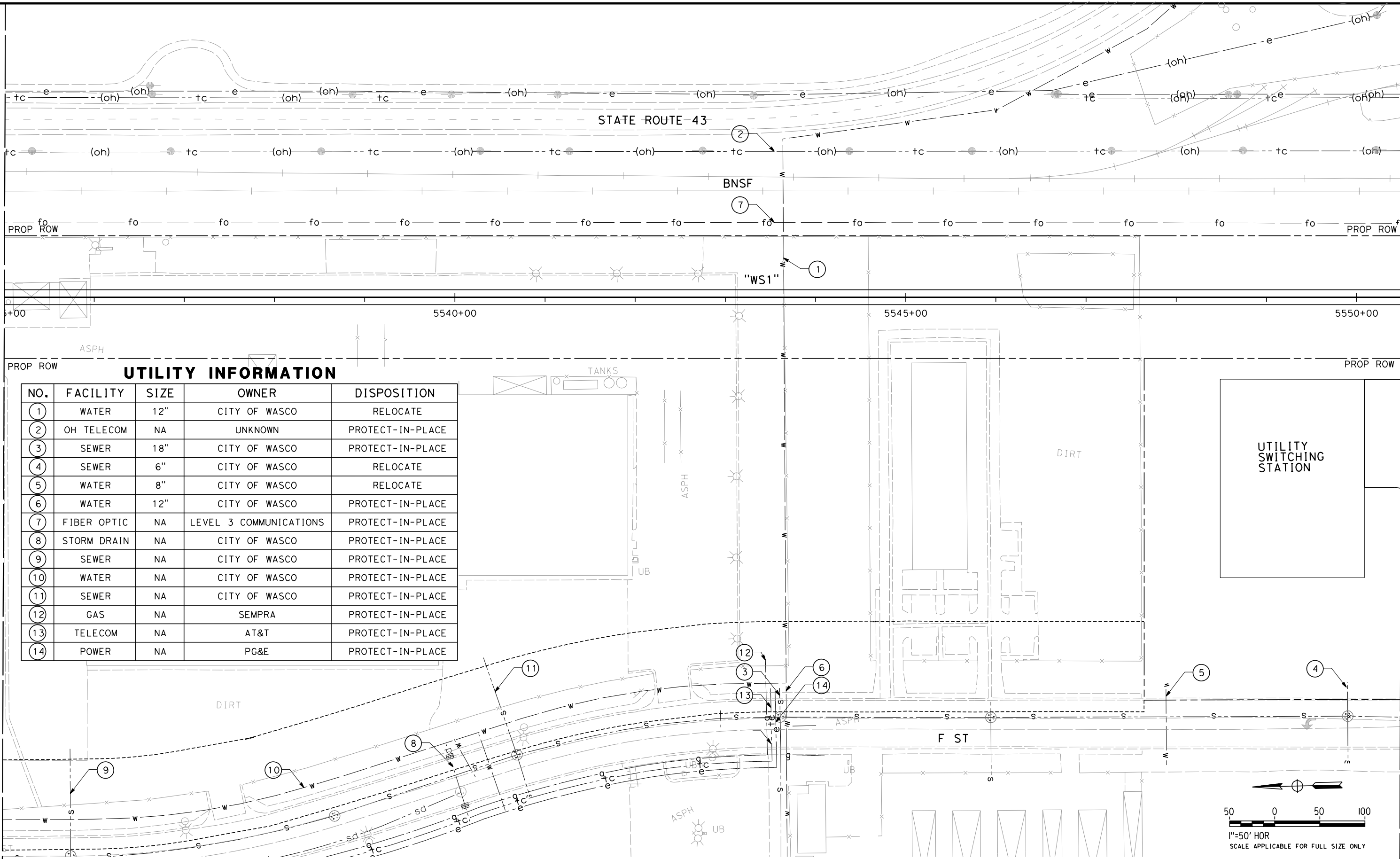
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4549     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>58 OF 163      |

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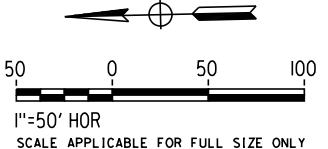
MATCH LINE (UT-C4549)

MATCH LINE (UT-C4551)



UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER                  | DISPOSITION      |
|-----|-------------|------|------------------------|------------------|
| 1   | WATER       | 12"  | CITY OF WASCO          | RELOCATE         |
| 2   | OH TELECOM  | NA   | UNKNOWN                | PROTECT-IN-PLACE |
| 3   | SEWER       | 18"  | CITY OF WASCO          | PROTECT-IN-PLACE |
| 4   | SEWER       | 6"   | CITY OF WASCO          | RELOCATE         |
| 5   | WATER       | 8"   | CITY OF WASCO          | RELOCATE         |
| 6   | WATER       | 12"  | CITY OF WASCO          | PROTECT-IN-PLACE |
| 7   | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATIONS | PROTECT-IN-PLACE |
| 8   | STORM DRAIN | NA   | CITY OF WASCO          | PROTECT-IN-PLACE |
| 9   | SEWER       | NA   | CITY OF WASCO          | PROTECT-IN-PLACE |
| 10  | WATER       | NA   | CITY OF WASCO          | PROTECT-IN-PLACE |
| 11  | SEWER       | NA   | CITY OF WASCO          | PROTECT-IN-PLACE |
| 12  | GAS         | NA   | SEMPRA                 | PROTECT-IN-PLACE |
| 13  | TELECOM     | NA   | AT&T                   | PROTECT-IN-PLACE |
| 14  | POWER       | NA   | PG&E                   | PROTECT-IN-PLACE |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



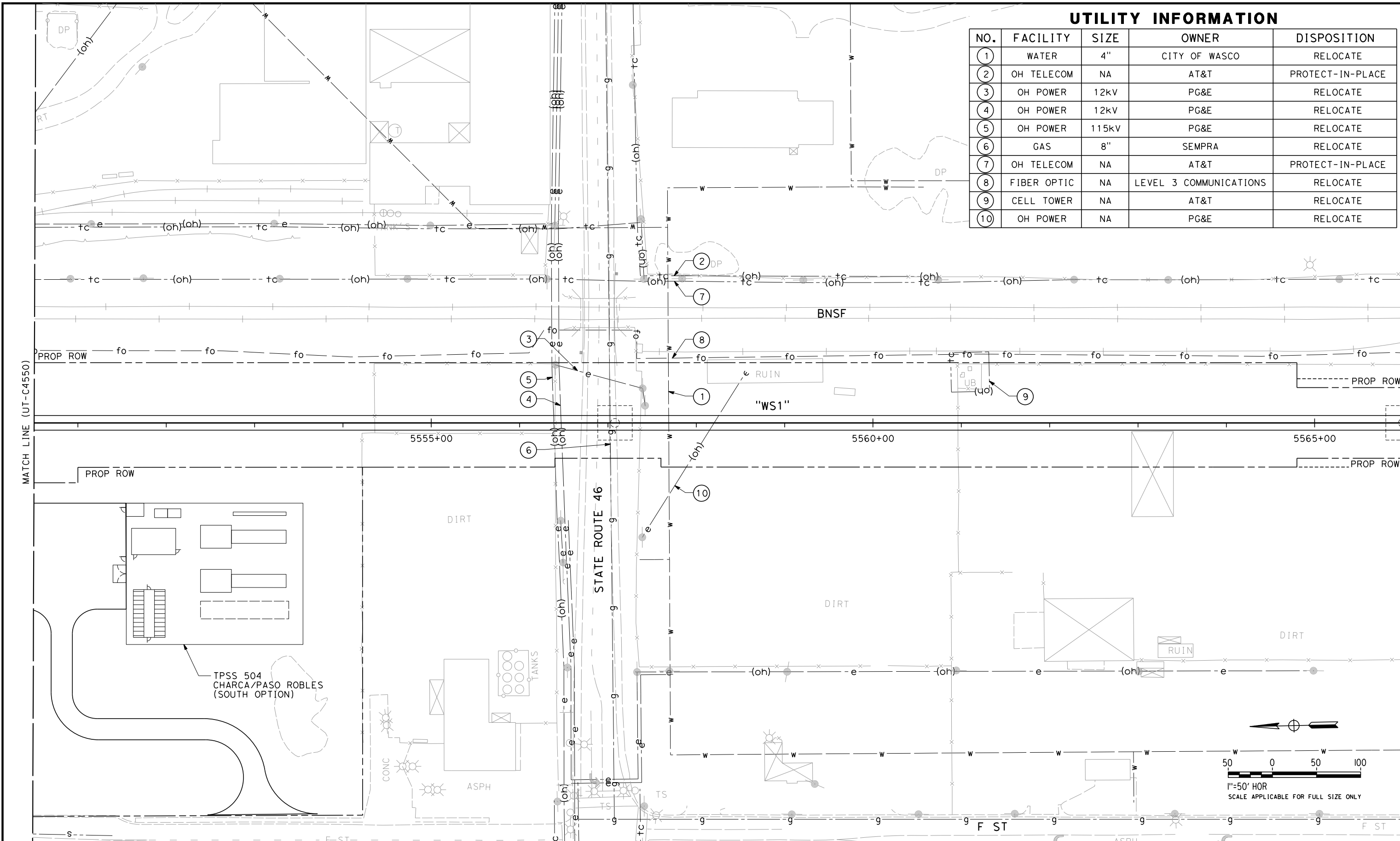
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5535+00 TO 5550+50

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4550  
SCALE  
AS SHOWN  
SHEET NO.  
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ORT52801



UTILITY INFORMATION

| NO. | FACILITY    | SIZE  | OWNER                  | DISPOSITION      |
|-----|-------------|-------|------------------------|------------------|
| ①   | WATER       | 4"    | CITY OF WASCO          | RELOCATE         |
| ②   | OH TELECOM  | NA    | AT&T                   | PROTECT-IN-PLACE |
| ③   | OH POWER    | 12kV  | PG&E                   | RELOCATE         |
| ④   | OH POWER    | 12kV  | PG&E                   | RELOCATE         |
| ⑤   | OH POWER    | 115kV | PG&E                   | RELOCATE         |
| ⑥   | GAS         | 8"    | SEMPRA                 | RELOCATE         |
| ⑦   | OH TELECOM  | NA    | AT&T                   | PROTECT-IN-PLACE |
| ⑧   | FIBER OPTIC | NA    | LEVEL 3 COMMUNICATIONS | RELOCATE         |
| ⑨   | CELL TOWER  | NA    | AT&T                   | RELOCATE         |
| ⑩   | OH POWER    | NA    | PG&E                   | RELOCATE         |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5550+50 TO 5566+00

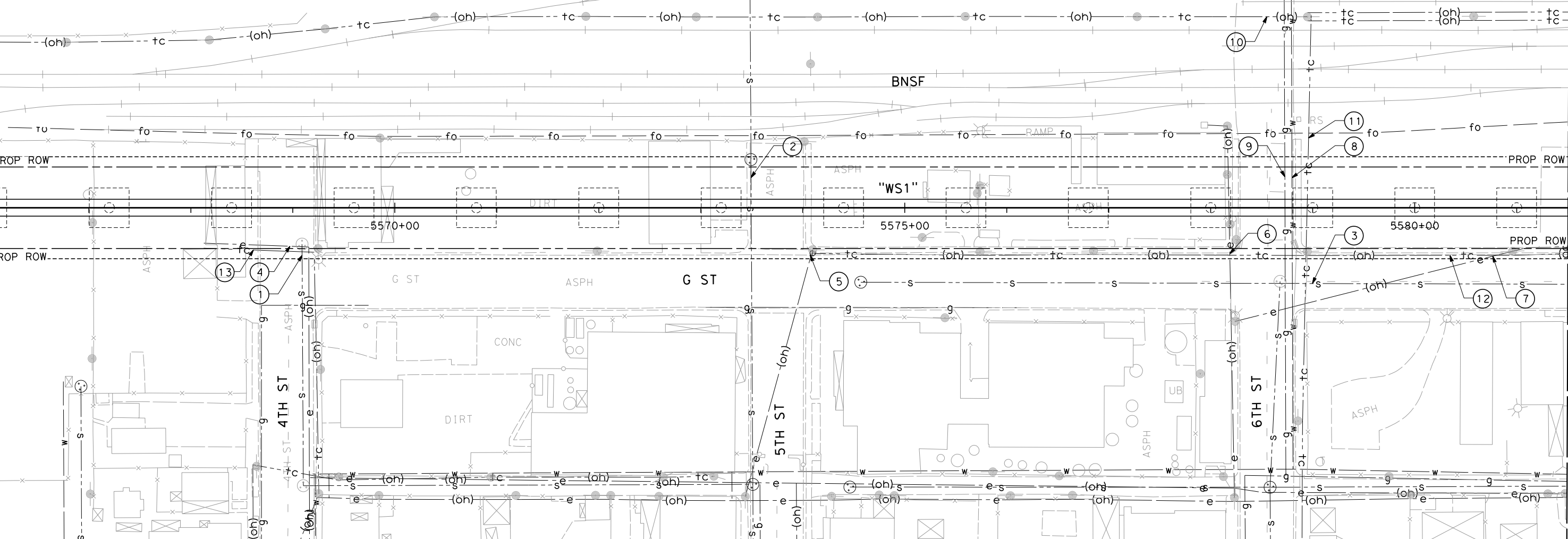
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HSR 06-0003  
DRAWING NO.  
UT-C4551  
SCALE  
AS SHOWN  
SHEET NO.  
60 OF 163

REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015



UTILITY INFORMATION

| NO. | FACILITY      | SIZE | OWNER         | DISPOSITION      |
|-----|---------------|------|---------------|------------------|
| 1   | SEWER         | 8"   | CITY OF WASCO | REMOVE           |
| 2   | SEWER         | 10"  | CITY OF WASCO | RELOCATE         |
| 3   | SEWER         | 8"   | CITY OF WASCO | PROTECT-IN-PLACE |
| 4   | OH POWER      | 240V | PG&E          | RELOCATE         |
| 5   | OH POWER      | 12kV | PG&E          | RELOCATE         |
| 6   | OH POWER      | 240V | PG&E          | RELOCATE         |
| 7   | OH POWER      | 12kV | PG&E          | RELOCATE         |
| 8   | WATER         | 6"   | CITY OF WASCO | RELOCATE         |
| 9   | GAS           | 2"   | SEMPRA        | RELOCATE         |
| 10  | OH TELEVISION | NA   | UNKNOWN       | PROTECT-IN-PLACE |
| 11  | TELECOM       | NA   | AT&T          | RELOCATE         |



UTILITY INFORMATION CONT.

| NO. | FACILITY   | SIZE | OWNER | DISPOSITION |
|-----|------------|------|-------|-------------|
| 12  | OH TELECOM | NA   | AT&T  | RELOCATE    |
| 13  | OH TELECOM | NA   | AT&T  | RELOCATE    |

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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5566+00 TO 5581+50

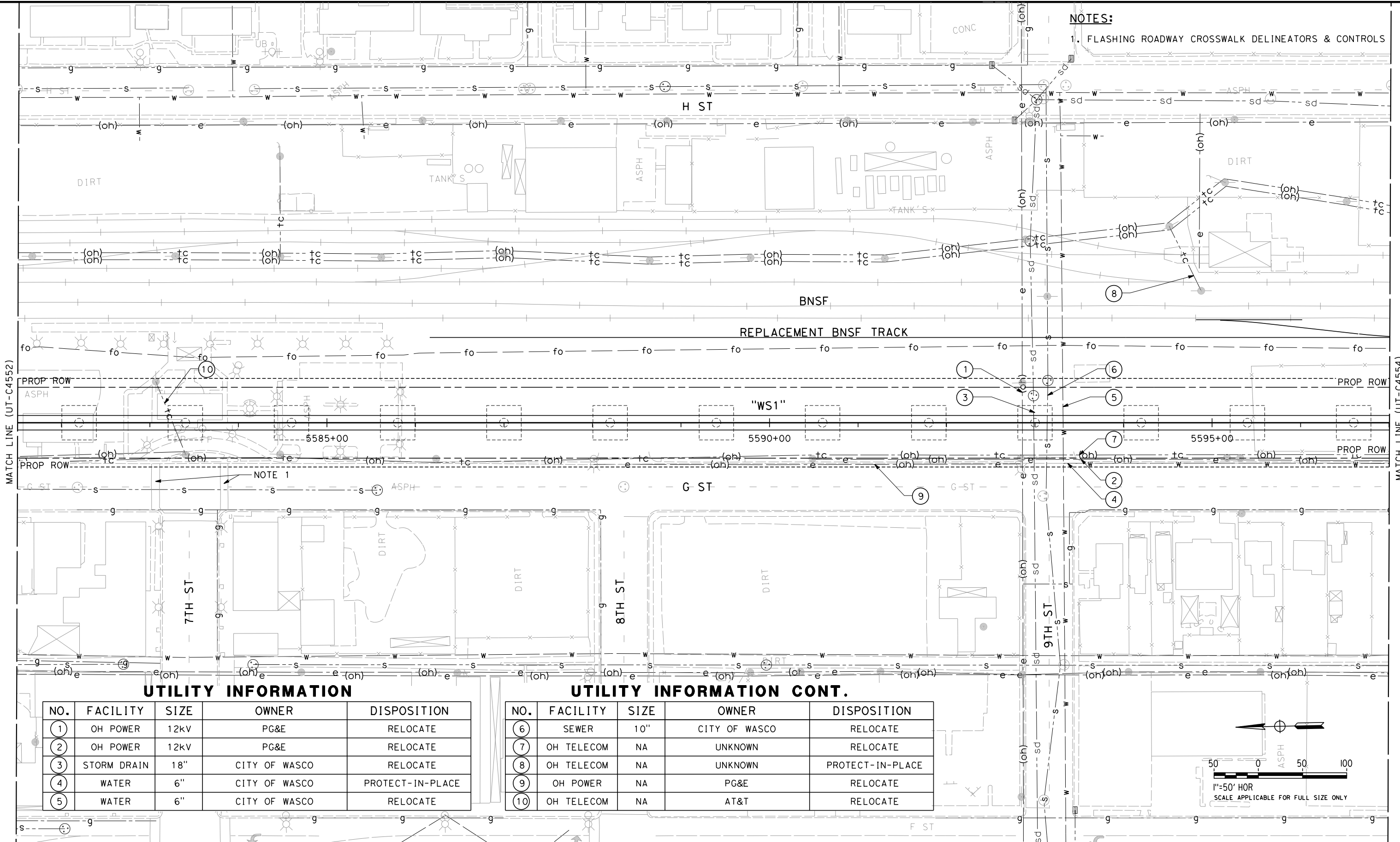
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4552  
SCALE  
AS SHOWN  
SHEET NO.  
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REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015



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ORT52801



**NOTES:**

1. FLASHING ROADWAY CROSSWALK DELINEATORS & CONTROLS

**UTILITY INFORMATION**

| NO. | FACILITY    | SIZE | OWNER         | DISPOSITION      |
|-----|-------------|------|---------------|------------------|
| ①   | OH POWER    | 12kV | PG&E          | RELOCATE         |
| ②   | OH POWER    | 12kV | PG&E          | RELOCATE         |
| ③   | STORM DRAIN | 18"  | CITY OF WASCO | RELOCATE         |
| ④   | WATER       | 6"   | CITY OF WASCO | PROTECT-IN-PLACE |
| ⑤   | WATER       | 6"   | CITY OF WASCO | RELOCATE         |

**UTILITY INFORMATION CONT.**

| NO. | FACILITY   | SIZE | OWNER         | DISPOSITION      |
|-----|------------|------|---------------|------------------|
| ⑥   | SEWER      | 10"  | CITY OF WASCO | RELOCATE         |
| ⑦   | OH TELECOM | NA   | UNKNOWN       | RELOCATE         |
| ⑧   | OH TELECOM | NA   | UNKNOWN       | PROTECT-IN-PLACE |
| ⑨   | OH POWER   | NA   | PG&E          | RELOCATE         |
| ⑩   | OH TELECOM | NA   | AT&T          | RELOCATE         |

DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

**PROPOSED  
PRELIMINARY  
DESIGN**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA**  
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5581+50 TO 5597+00

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4553  
SCALE  
AS SHOWN  
SHEET NO.  
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REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

NOTES:  
1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER         | DISPOSITION      |
|-----|----------|------|---------------|------------------|
| 1   | WATER    | 6"   | CITY OF WASCO | PROTECT-IN-PLACE |
| 2   | WATER    | 8"   | CITY OF WASCO | RELOCATE         |
| 3   | WATER    | 12"  | CITY OF WASCO | PROTECT-IN-PLACE |

BNSF  
REPLACEMENT BNSF TRACK

UTILITY INFORMATION CONT.

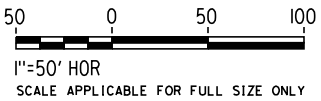
| NO. | FACILITY   | SIZE | OWNER         | DISPOSITION      |
|-----|------------|------|---------------|------------------|
| 4   | WATER      | 6"   | CITY OF WASCO | RELOCATE         |
| 5   | OH TELECOM | NA   | AT&T          | PROTECT-IN-PLACE |
| 6   | OH TELECOM | NA   | AT&T          | PROTECT-IN-PLACE |
| 7   | OH TELECOM | NA   | AT&T          | RELOCATE         |
| 8   | OH POWER   | 12kV | PG&E          | RELOCATE         |

UTILITY INFORMATION CONT.

| NO. | FACILITY | SIZE | OWNER  | DISPOSITION      |
|-----|----------|------|--------|------------------|
| 9   | OH POWER | 12kV | PG&E   | RELOCATE         |
| 10  | OH POWER | 12kV | PG&E   | RELOCATE         |
| 11  | GAS      | 2"   | SEMPRA | PROTECT-IN-PLACE |
| 12  | OH POWER | NA   | PG&E   | RELOCATE         |
| 13  | OH POWER | 480V | PG&E   | RELOCATE         |

UTILITY INFORMATION CONT.

| NO. | FACILITY   | SIZE | OWNER               | DISPOSITION |
|-----|------------|------|---------------------|-------------|
| 14  | OH POWER   | NA   | PG&E                | RELOCATE    |
| 15  | OH POWER   | NA   | PG&E                | RELOCATE    |
| 16  | OH TELECOM | NA   | BRIGHTHOUSE NETWORK | RELOCATE    |
| 17  | OH TELECOM | NA   | BRIGHTHOUSE NETWORK | RELOCATE    |
| 18  | OH TELECOM | NA   | BRIGHTHOUSE NETWORK | RELOCATE    |
| 19  | OH POWER   | NA   | PG&E                | RELOCATE    |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5597+00 TO 5612+50

|                             |
|-----------------------------|
| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4554     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>63 OF 163      |

REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

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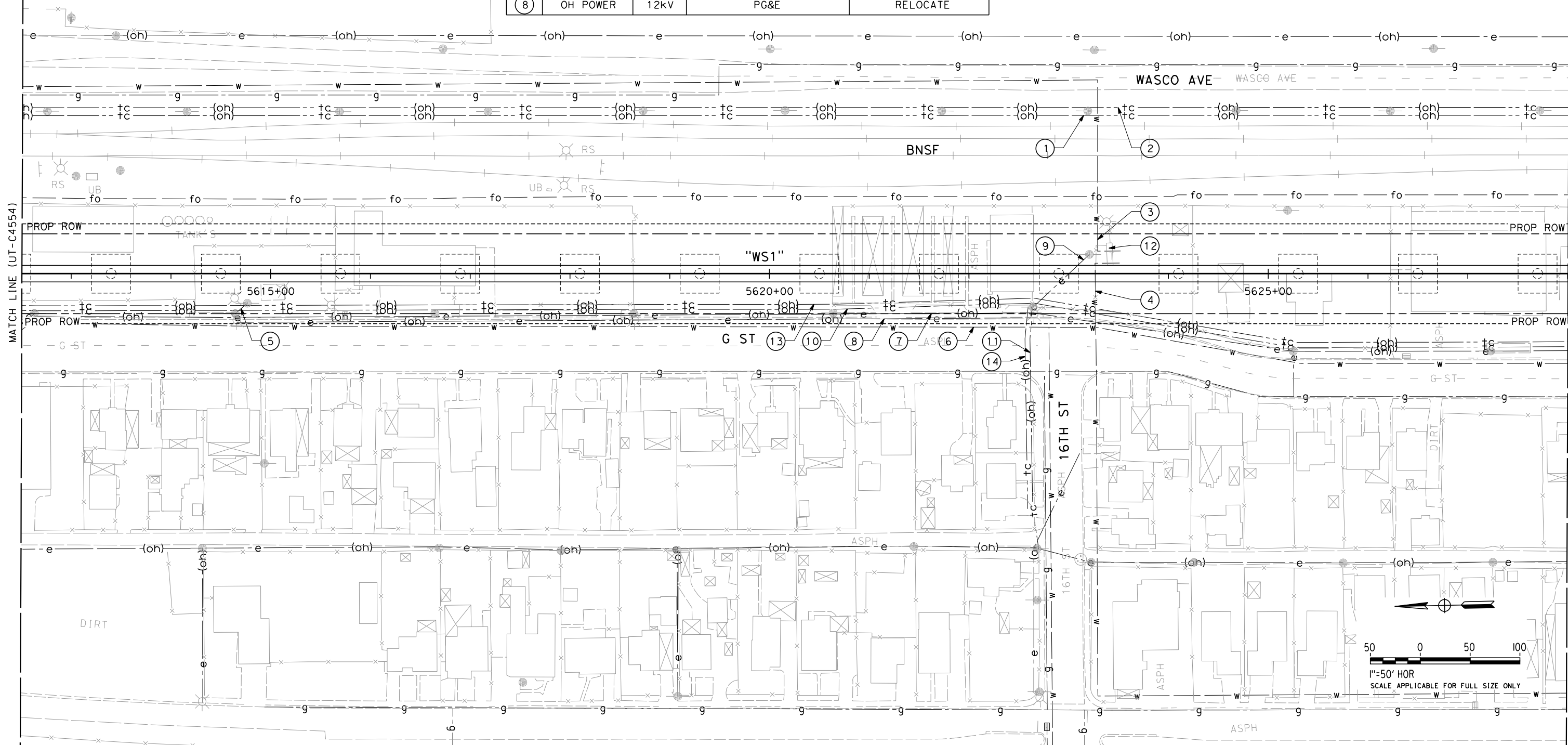
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### UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER         | DISPOSITION      |
|-----|------------|------|---------------|------------------|
| 1   | OH TELECOM | NA   | AT&T          | PROTECT-IN-PLACE |
| 2   | OH TELECOM | NA   | AT&T          | PROTECT-IN-PLACE |
| 3   | WATER      | 12"  | CITY OF WASCO | RELOCATE         |
| 4   | WATER      | 8"   | CITY OF WASCO | RELOCATE         |
| 5   | OH POWER   | NA   | PG&E          | RELOCATE         |
| 6   | WATER      | 6"   | CITY OF WASCO | PROTECT-IN-PLACE |
| 7   | OH POWER   | 240V | PG&E          | RELOCATE         |
| 8   | OH POWER   | 12kV | PG&E          | RELOCATE         |

### UTILITY INFORMATION CONT.

| NO. | FACILITY           | SIZE | OWNER               | DISPOSITION |
|-----|--------------------|------|---------------------|-------------|
| 9   | OH POWER           | 12kV | PG&E                | RELOCATE    |
| 10  | OH TELECOM         | NA   | AT&T                | RELOCATE    |
| 11  | OH TELECOM         | NA   | AT&T                | RELOCATE    |
| 12  | POTABLE WATER WELL | NA   | CITY OF WASCO       | RELOCATE    |
| 13  | OH TELECOM         | NA   | BRIGHTHOUSE NETWORK | RELOCATE    |
| 14  | OH TELECOM         | NA   | BRIGHTHOUSE NETWORK | RELOCATE    |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5612+50 TO 5628+00

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4555     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>64 OF 163      |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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PRELIMINARY  
DESIGN

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CONSTRUCTION

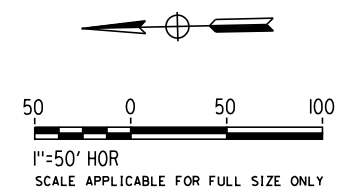
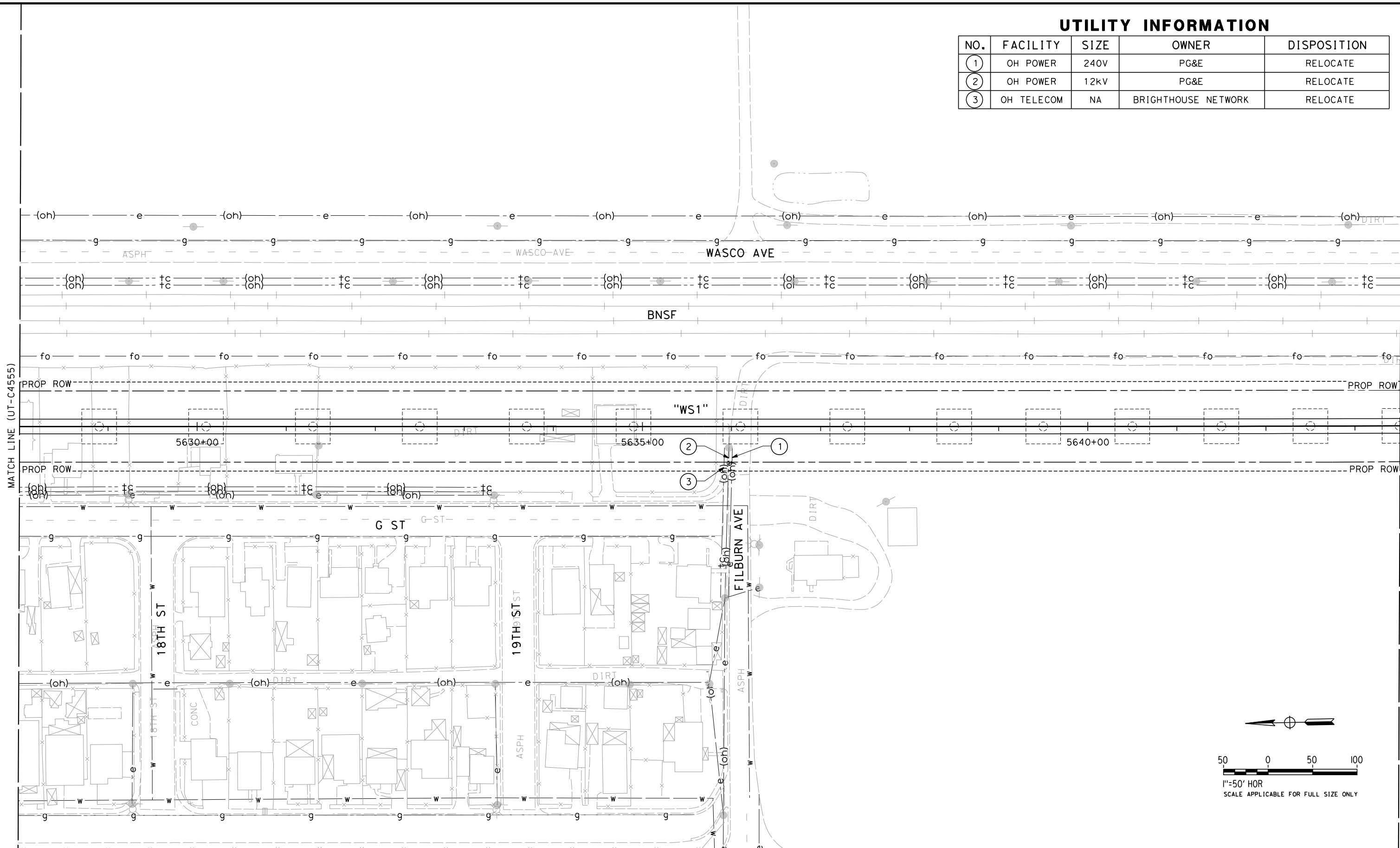


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5628+00 TO 5643+50

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4556     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>65 OF 163      |

UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER               | DISPOSITION |
|-----|------------|------|---------------------|-------------|
| ①   | OH POWER   | 240V | PG&E                | RELOCATE    |
| ②   | OH POWER   | 12kV | PG&E                | RELOCATE    |
| ③   | OH TELECOM | NA   | BRIGHTHOUSE NETWORK | RELOCATE    |



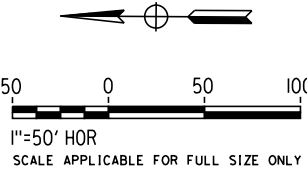
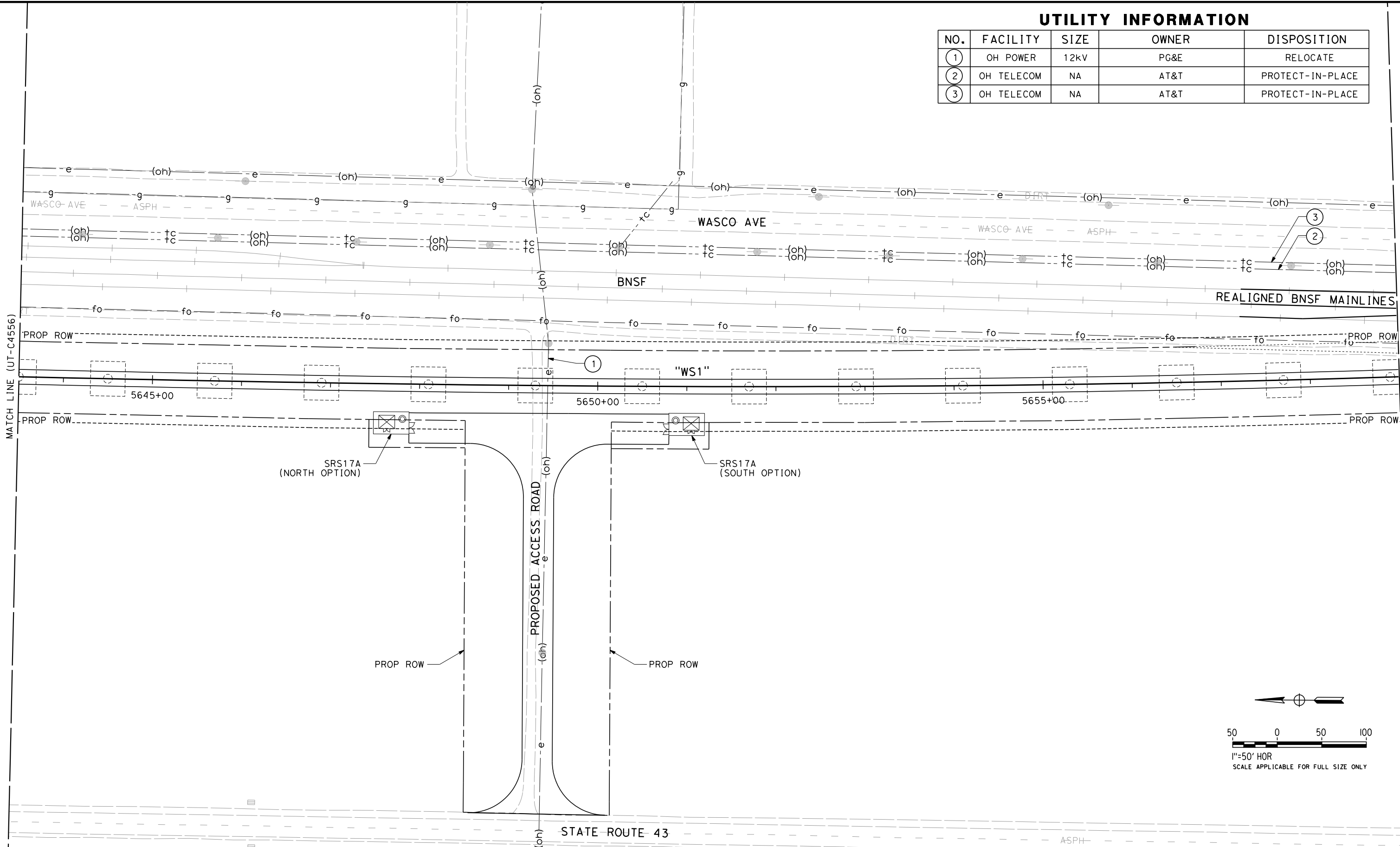
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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER | DISPOSITION      |
|-----|------------|------|-------|------------------|
| ①   | OH POWER   | 12kV | PG&E  | RELOCATE         |
| ②   | OH TELECOM | NA   | AT&T  | PROTECT-IN-PLACE |
| ③   | OH TELECOM | NA   | AT&T  | PROTECT-IN-PLACE |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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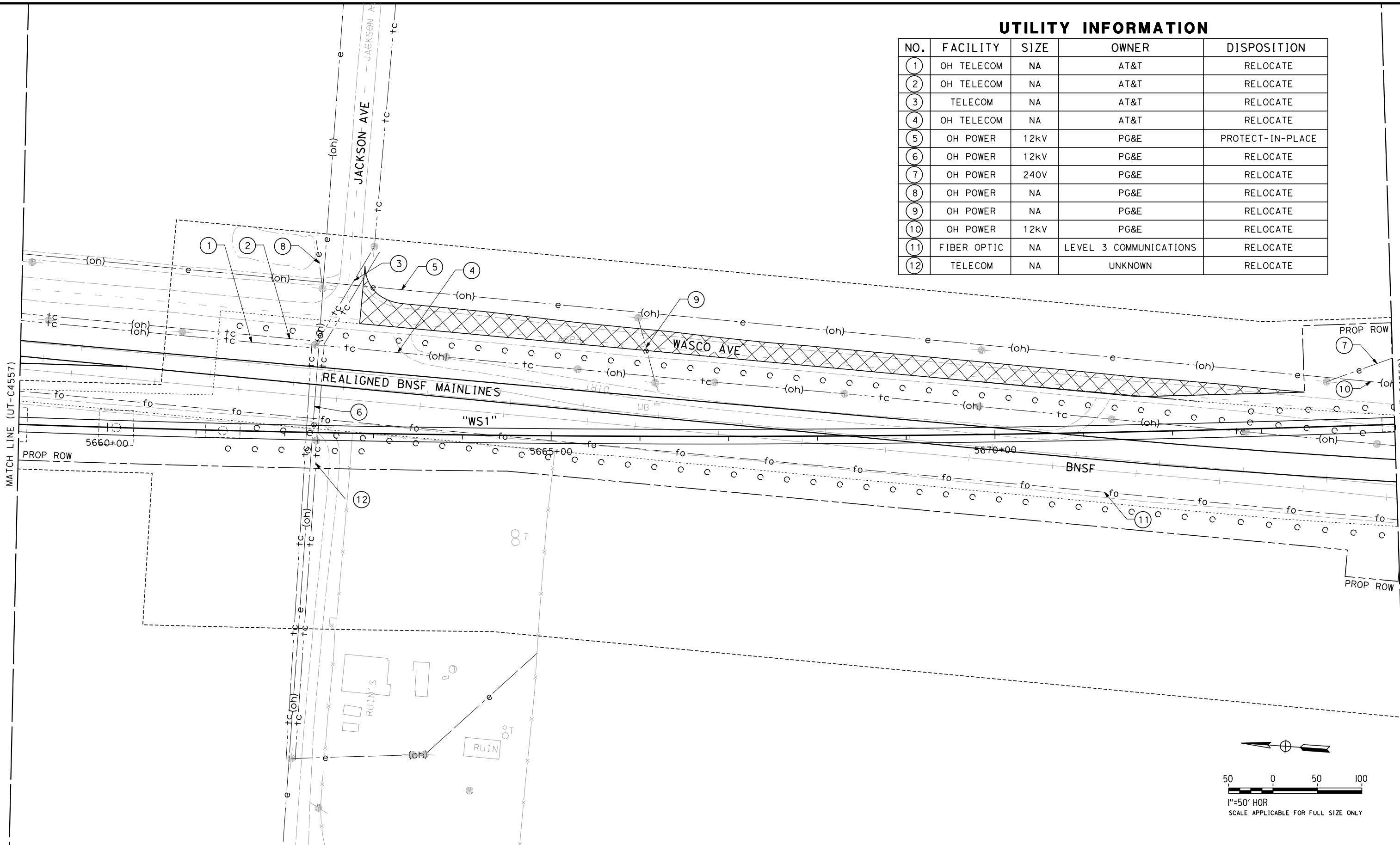
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5643+50 TO 5659+00

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4557     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>66 OF 163      |

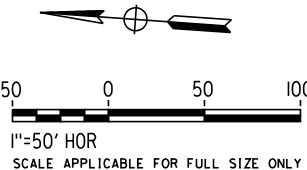
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| UTILITY INFORMATION |             |      |                        |                  |
|---------------------|-------------|------|------------------------|------------------|
| NO.                 | FACILITY    | SIZE | OWNER                  | DISPOSITION      |
| ①                   | OH TELECOM  | NA   | AT&T                   | RELOCATE         |
| ②                   | OH TELECOM  | NA   | AT&T                   | RELOCATE         |
| ③                   | TELECOM     | NA   | AT&T                   | RELOCATE         |
| ④                   | OH TELECOM  | NA   | AT&T                   | RELOCATE         |
| ⑤                   | OH POWER    | 12kV | PG&E                   | PROTECT-IN-PLACE |
| ⑥                   | OH POWER    | 12kV | PG&E                   | RELOCATE         |
| ⑦                   | OH POWER    | 240V | PG&E                   | RELOCATE         |
| ⑧                   | OH POWER    | NA   | PG&E                   | RELOCATE         |
| ⑨                   | OH POWER    | NA   | PG&E                   | RELOCATE         |
| ⑩                   | OH POWER    | 12kV | PG&E                   | RELOCATE         |
| ⑪                   | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATIONS | RELOCATE         |
| ⑫                   | TELECOM     | NA   | UNKNOWN                | RELOCATE         |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5659+00 TO 5674+50

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4558     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>67 OF 163      |

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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CONSTRUCTION

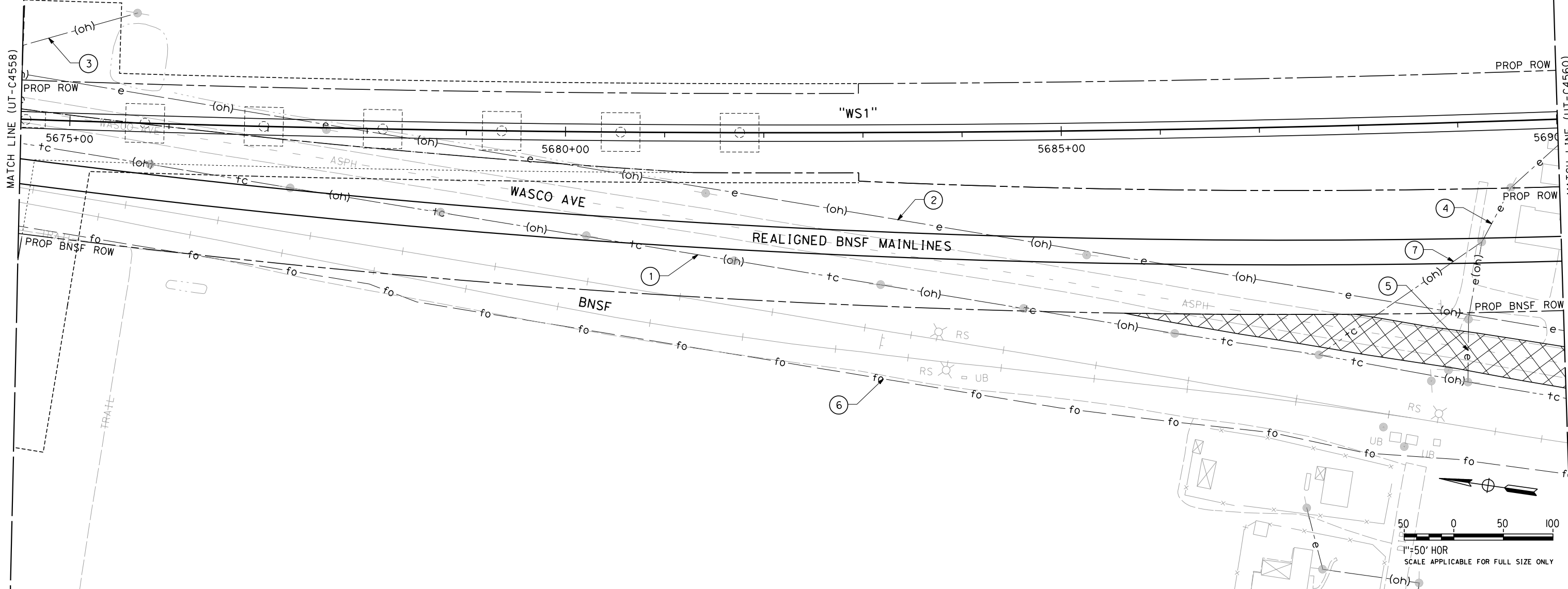


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5674+50 TO 5690+00

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4559     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>68 OF 163      |

UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER                  | DISPOSITION |
|-----|-------------|------|------------------------|-------------|
| ①   | OH TELECOM  | NA   | AT&T                   | RELOCATE    |
| ②   | OH POWER    | 12kV | PG&E                   | RELOCATE    |
| ③   | OH POWER    | 240V | PG&E                   | RELOCATE    |
| ④   | OH POWER    | 240V | PG&E                   | RELOCATE    |
| ⑤   | OH POWER    | 240V | PG&E                   | RELOCATE    |
| ⑥   | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATIONS | RELOCATE    |
| ⑦   | OH TELECOM  | NA   | AT&T                   | RELOCATE    |

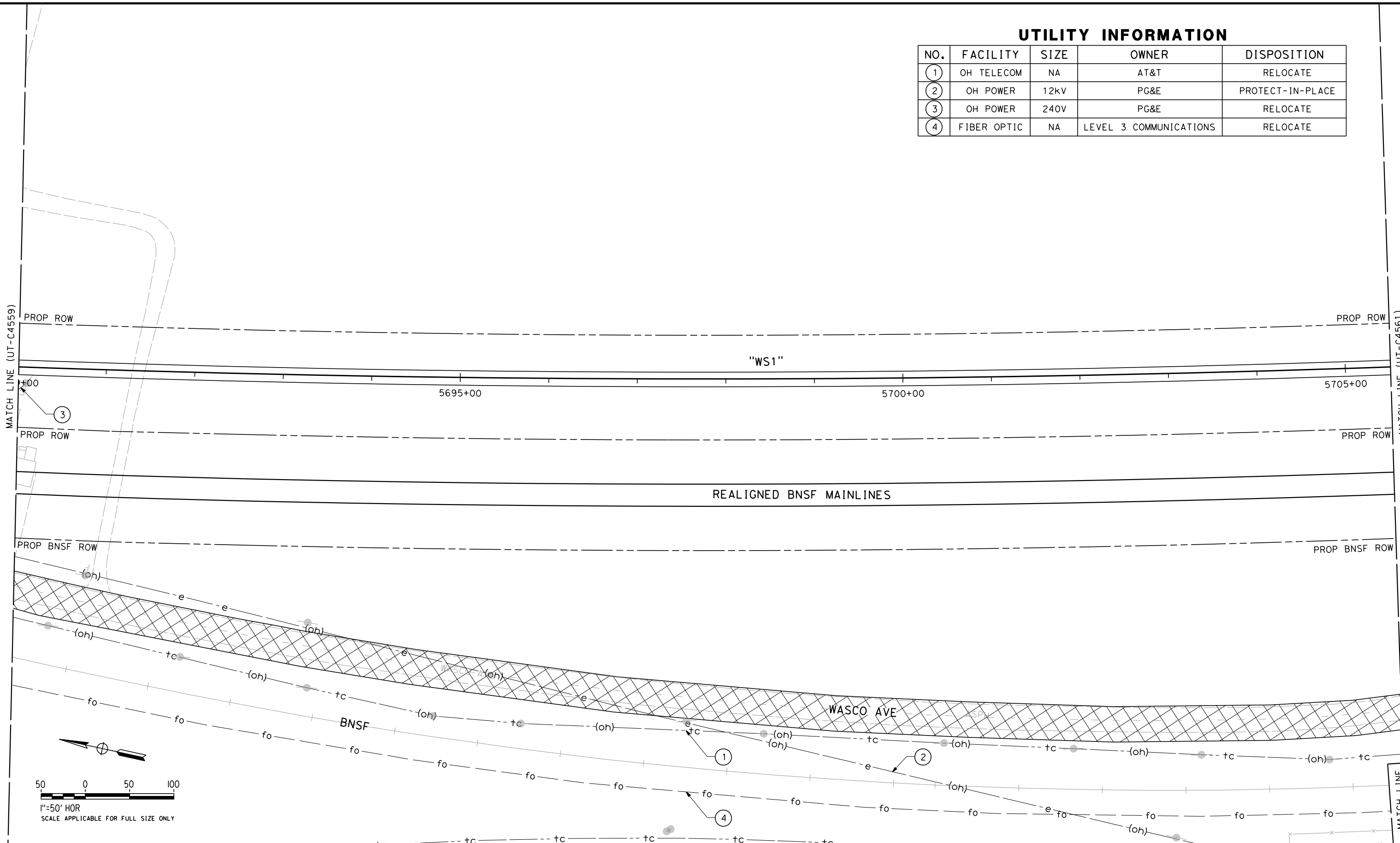


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| UTILITY INFORMATION |             |      |                        |                  |
|---------------------|-------------|------|------------------------|------------------|
| NO.                 | FACILITY    | SIZE | OWNER                  | DISPOSITION      |
| ①                   | OH TELECOM  | NA   | AT&T                   | RELOCATE         |
| ②                   | OH POWER    | 12kV | PG&E                   | PROTECT-IN-PLACE |
| ③                   | OH POWER    | 240V | PG&E                   | RELOCATE         |
| ④                   | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATIONS | RELOCATE         |

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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

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PRELIMINARY  
DESIGN  
  
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CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5690+00 TO 5705+50

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4560  
SCALE  
AS SHOWN  
SHEET NO.  
69 OF 163

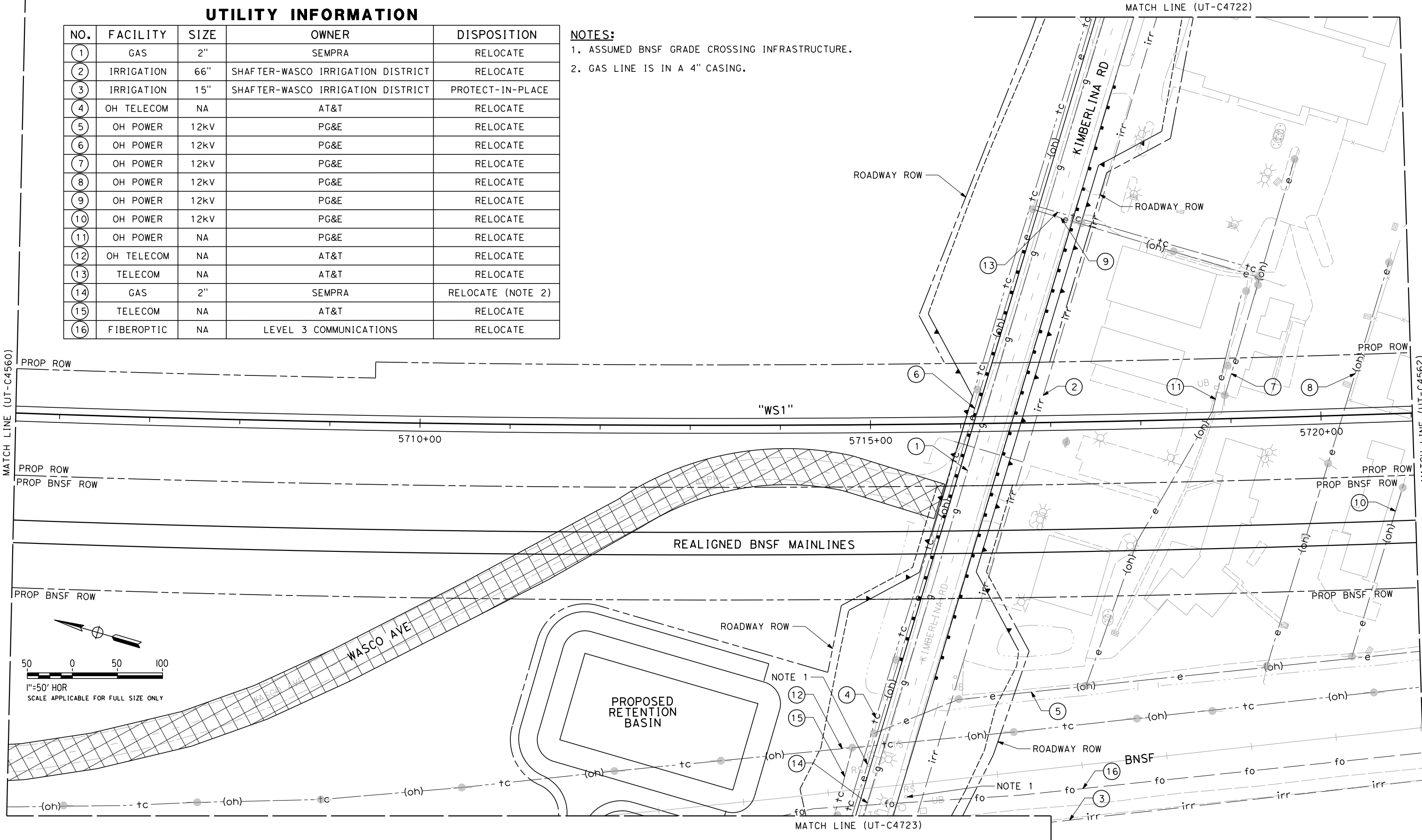
MATCH LINE (UT-C4561)  
RFP No. HSR 14-32 - INITIAL RELEASE - 05/27/2015  
MATCH LINE (UT-C4723)

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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION       |
|-----|------------|------|-----------------------------------|-------------------|
| 1   | GAS        | 2"   | SEMPRA                            | RELOCATE          |
| 2   | IRRIGATION | 66"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE          |
| 3   | IRRIGATION | 15"  | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE  |
| 4   | OH TELECOM | NA   | AT&T                              | RELOCATE          |
| 5   | OH POWER   | 12kV | PG&E                              | RELOCATE          |
| 6   | OH POWER   | 12kV | PG&E                              | RELOCATE          |
| 7   | OH POWER   | 12kV | PG&E                              | RELOCATE          |
| 8   | OH POWER   | 12kV | PG&E                              | RELOCATE          |
| 9   | OH POWER   | 12kV | PG&E                              | RELOCATE          |
| 10  | OH POWER   | 12kV | PG&E                              | RELOCATE          |
| 11  | OH POWER   | NA   | PG&E                              | RELOCATE          |
| 12  | OH TELECOM | NA   | AT&T                              | RELOCATE          |
| 13  | TELECOM    | NA   | AT&T                              | RELOCATE          |
| 14  | GAS        | 2"   | SEMPRA                            | RELOCATE (NOTE 2) |
| 15  | TELECOM    | NA   | AT&T                              | RELOCATE          |
| 16  | FIBEROPTIC | NA   | LEVEL 3 COMMUNICATIONS            | RELOCATE          |

- NOTES:
1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.
  2. GAS LINE IS IN A 4" CASING.



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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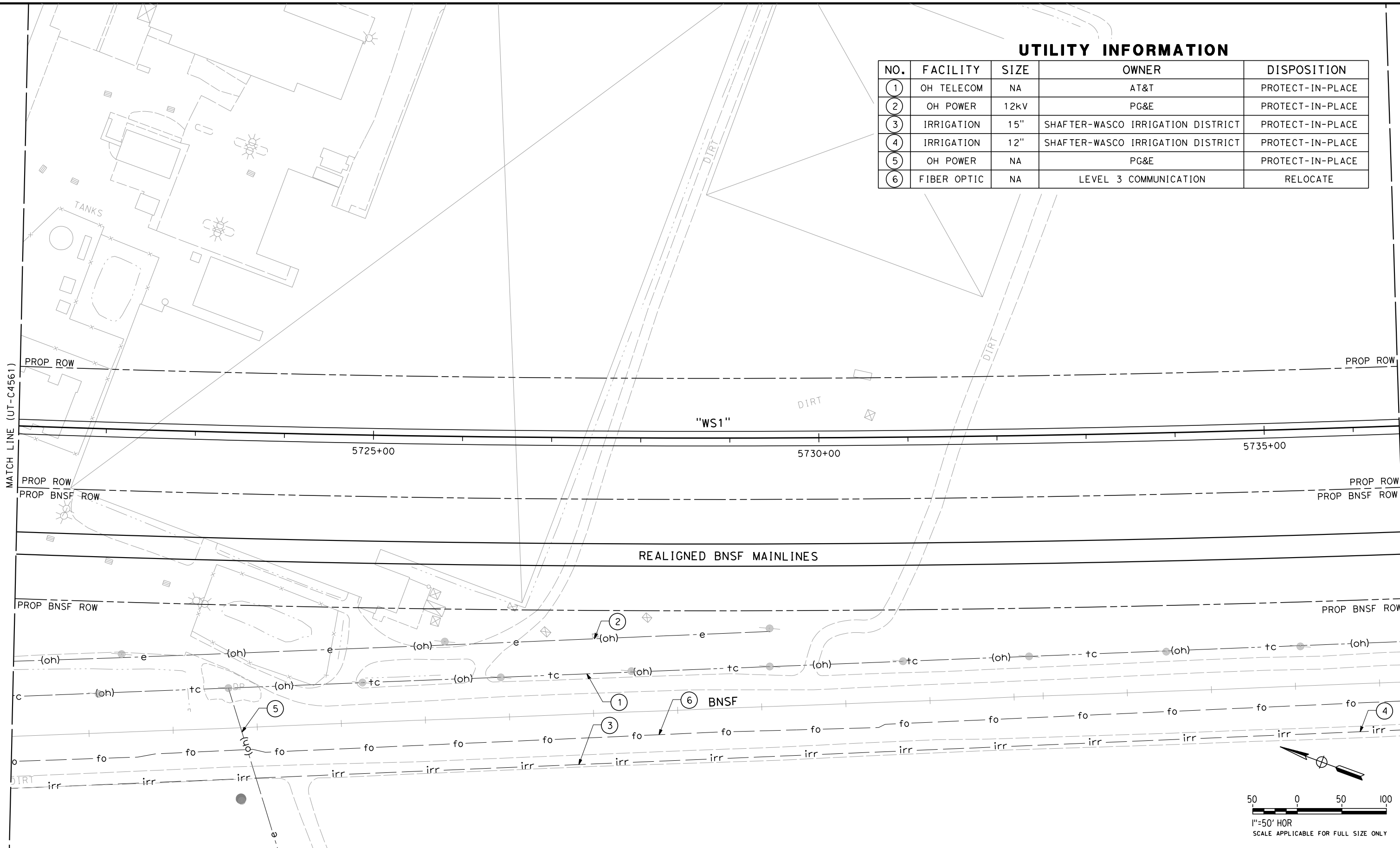


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5705+50 TO 5721+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4561     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>70 OF 163      |

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| UTILITY INFORMATION |             |      |                                   |                  |
|---------------------|-------------|------|-----------------------------------|------------------|
| NO.                 | FACILITY    | SIZE | OWNER                             | DISPOSITION      |
| ①                   | OH TELECOM  | NA   | AT&T                              | PROTECT-IN-PLACE |
| ②                   | OH POWER    | 12kV | PG&E                              | PROTECT-IN-PLACE |
| ③                   | IRRIGATION  | 15"  | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| ④                   | IRRIGATION  | 12"  | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| ⑤                   | OH POWER    | NA   | PG&E                              | PROTECT-IN-PLACE |
| ⑥                   | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATION             | RELOCATE         |

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5721+00 TO 5736+50

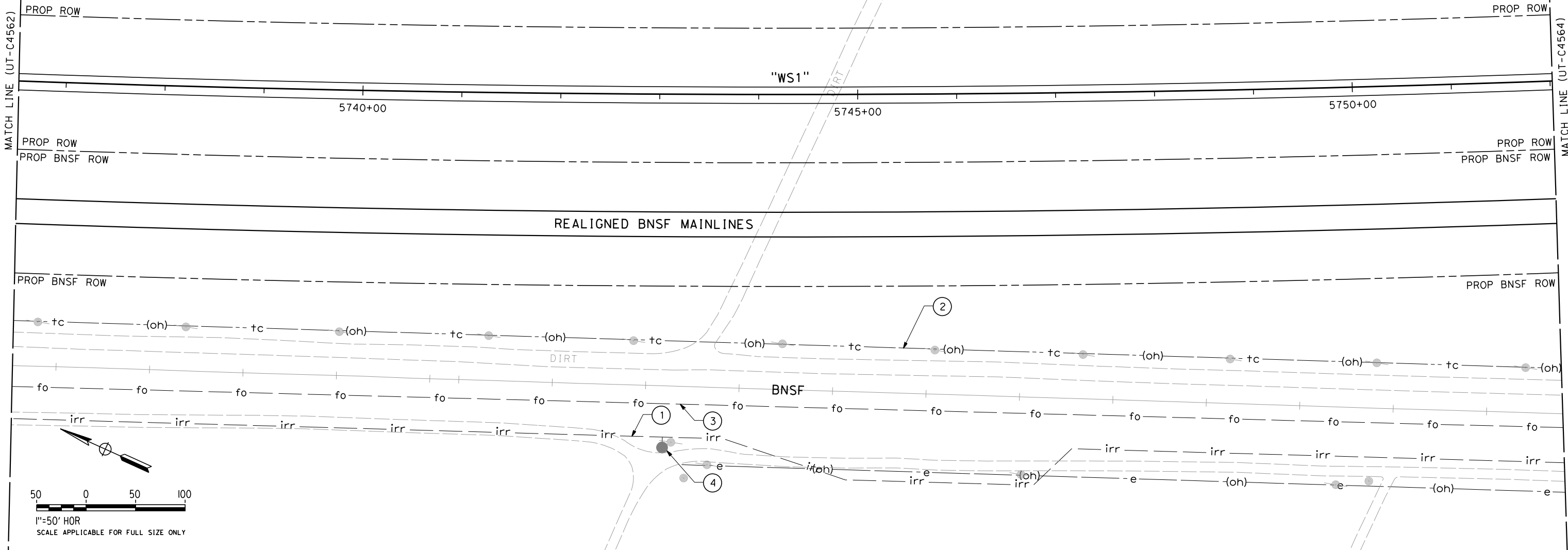
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4562     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>71 OF 163      |

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UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION      |
|-----|--------------|------|-----------------------------------|------------------|
| 1   | IRRIGATION   | 12"  | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| 2   | OH TELECOM   | NA   | AT&T                              | PROTECT-IN-PLACE |
| 3   | FIBER OPTIC  | NA   | LEVEL 3 COMMUNICATIONS            | RELOCATE         |
| 4   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5736+50 TO 5752+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4563     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>72 OF 163      |

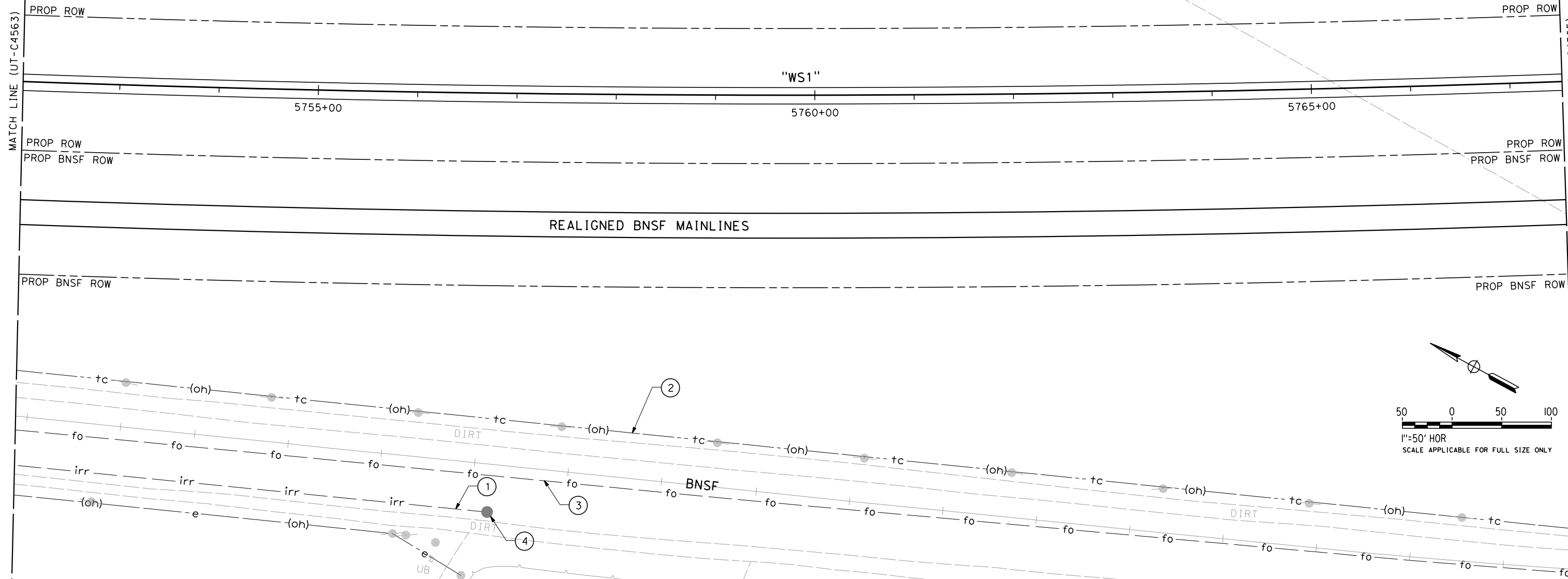
RFP No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

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ORT52801

UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION      |
|-----|--------------|------|-----------------------------------|------------------|
| ①   | IRRIGATION   | 12"  | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| ②   | OH TELECOM   | NA   | AT&T                              | PROTECT-IN-PLACE |
| ③   | FIBER OPTIC  | NA   | LEVEL 3 COMMUNICATIONS            | RELOCATE         |
| ④   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5752+00 TO 5767+50

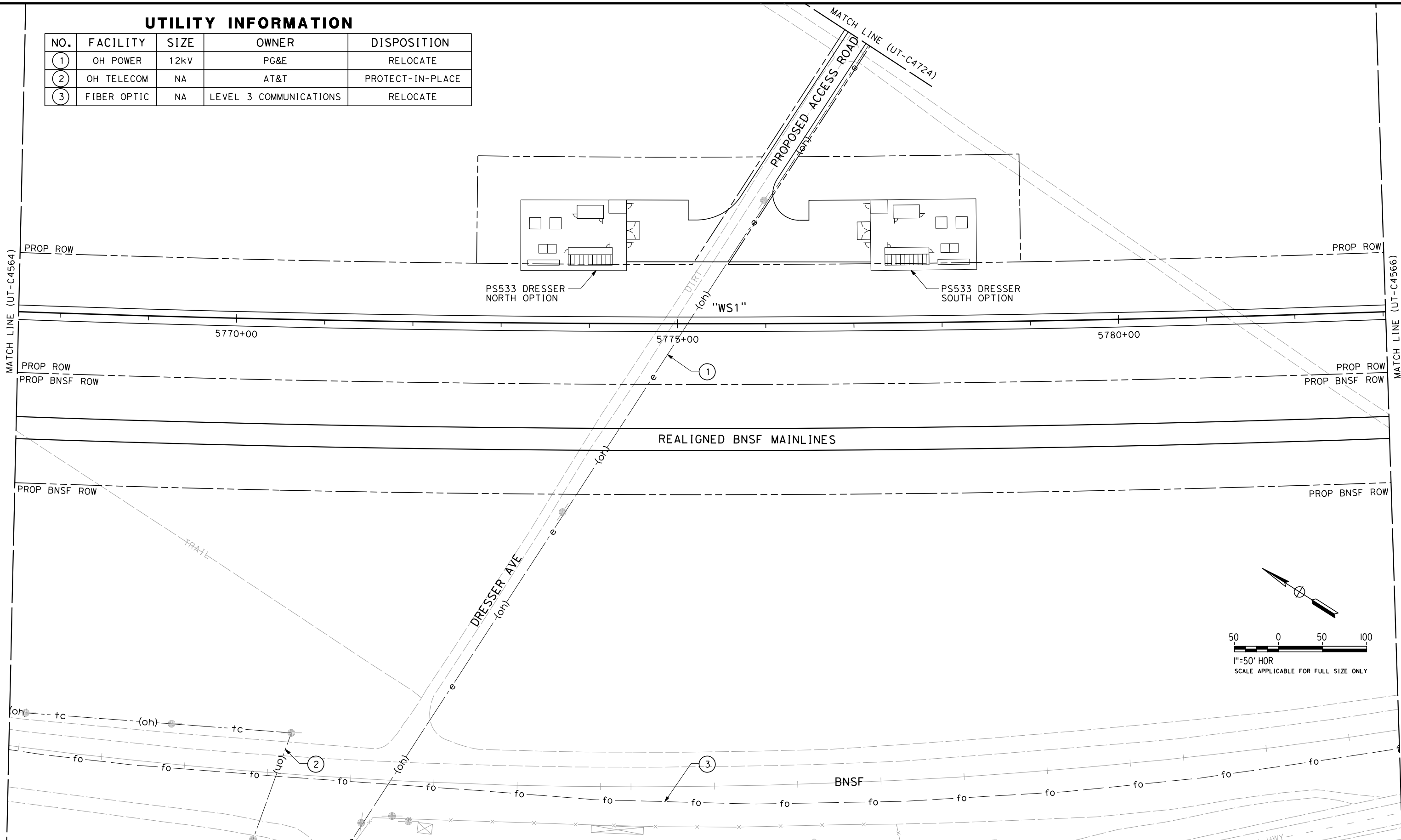
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4564     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>73 OF 163      |



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UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER                  | DISPOSITION      |
|-----|-------------|------|------------------------|------------------|
| 1   | OH POWER    | 12kV | PG&E                   | RELOCATE         |
| 2   | OH TELECOM  | NA   | AT&T                   | PROTECT-IN-PLACE |
| 3   | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATIONS | RELOCATE         |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DRAWN BY<br>V. ORTEGA   |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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CONSTRUCTION

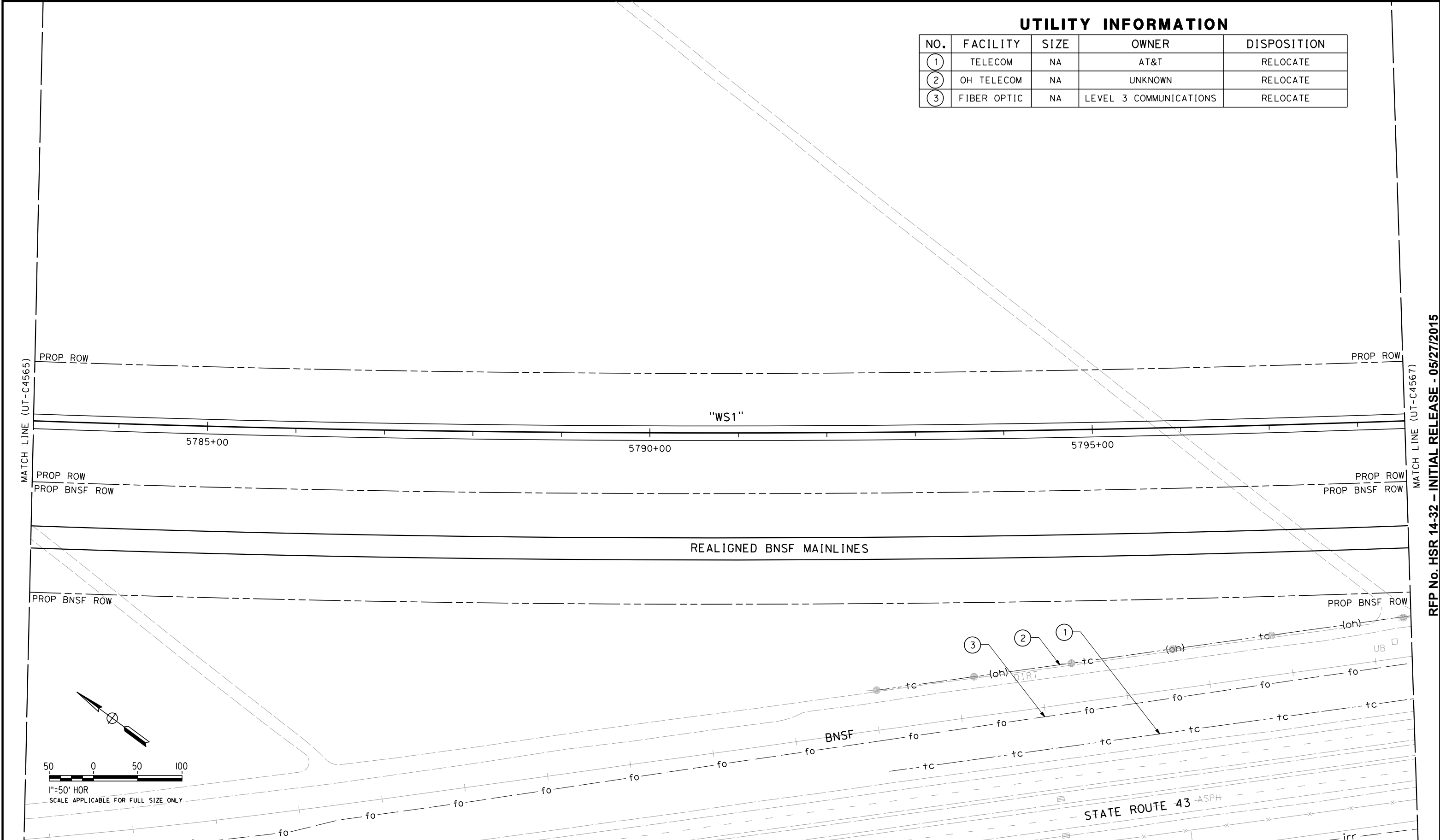


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5767+50 TO 5783+00

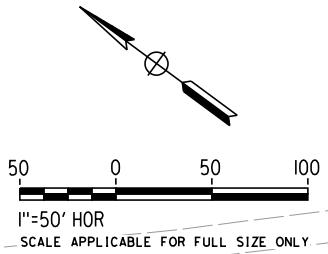
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| DRAWING NO.<br>UT-C4565     |
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| SHEET NO.<br>74 OF 163      |

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| UTILITY INFORMATION |             |      |                        |             |
|---------------------|-------------|------|------------------------|-------------|
| NO.                 | FACILITY    | SIZE | OWNER                  | DISPOSITION |
| ①                   | TELECOM     | NA   | AT&T                   | RELOCATE    |
| ②                   | OH TELECOM  | NA   | UNKNOWN                | RELOCATE    |
| ③                   | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATIONS | RELOCATE    |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5783+00 TO 5798+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4566     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>75 OF 163      |

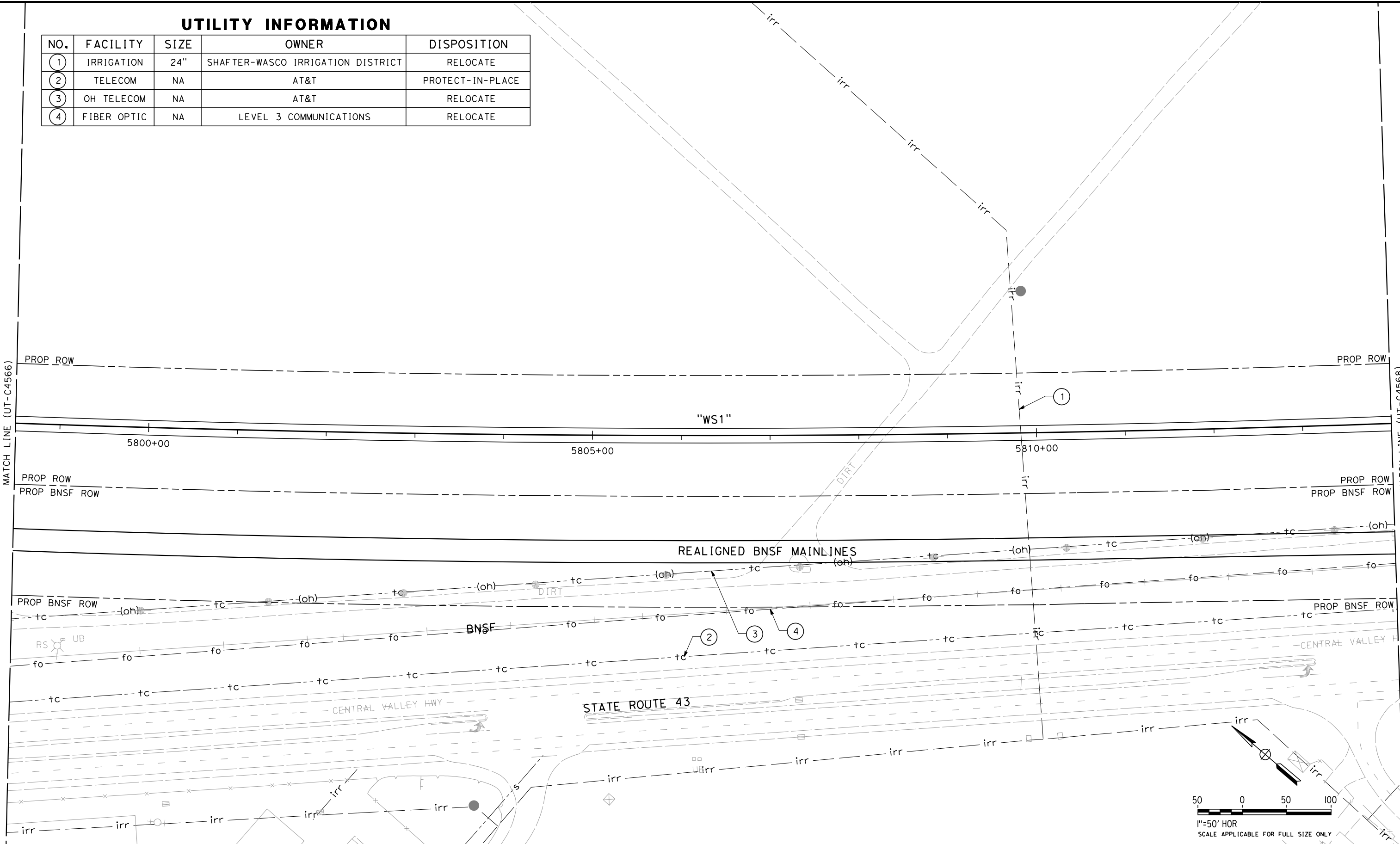
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UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER                             | DISPOSITION      |
|-----|-------------|------|-----------------------------------|------------------|
| ①   | IRRIGATION  | 24"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE         |
| ②   | TELECOM     | NA   | AT&T                              | PROTECT-IN-PLACE |
| ③   | OH TELECOM  | NA   | AT&T                              | RELOCATE         |
| ④   | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATIONS            | RELOCATE         |



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| DATE<br>09/30/14        |

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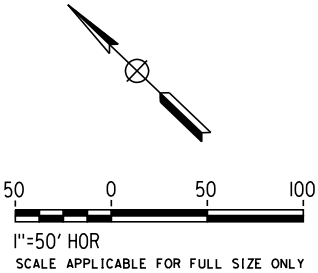
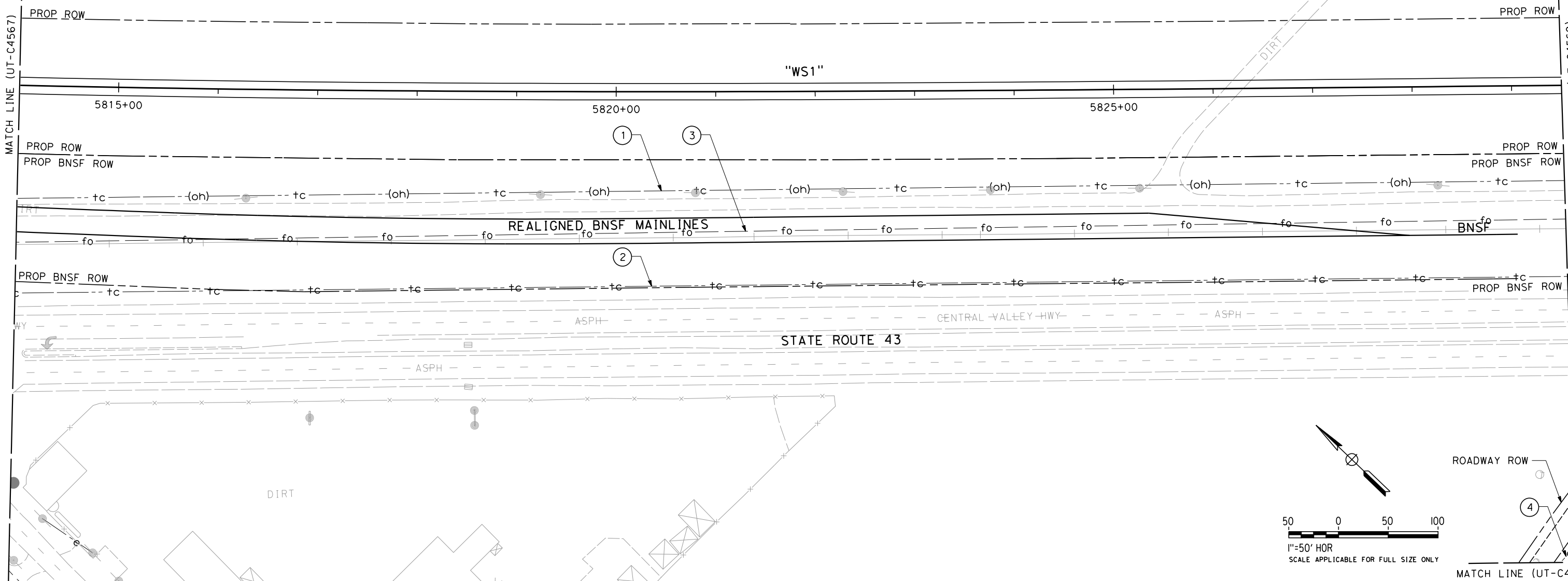
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5798+50 TO 5814+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4567     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>76 OF 163      |

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UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER                  | DISPOSITION |
|-----|-------------|------|------------------------|-------------|
| ①   | OH TELECOM  | NA   | AT&T                   | RELOCATE    |
| ②   | TELECOM     | NA   | AT&T                   | RELOCATE    |
| ③   | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATIONS | RELOCATE    |
| ④   | OH POWER    | 480V | PG&E                   | RELOCATE    |



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| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5814+00 TO 5829+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4568     |
| SCALE<br>AS SHOWN           |
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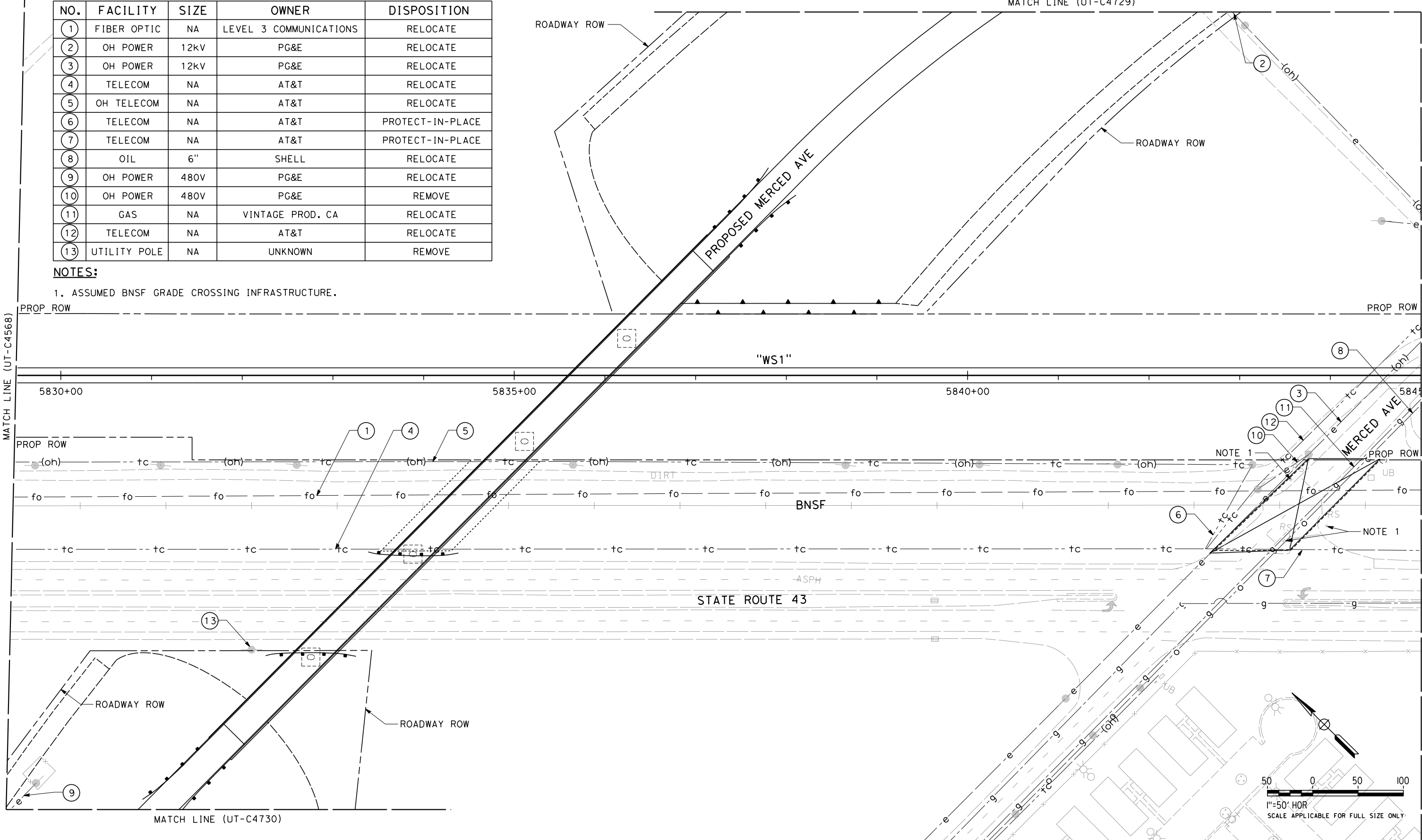
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UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                  | DISPOSITION      |
|-----|--------------|------|------------------------|------------------|
| 1   | FIBER OPTIC  | NA   | LEVEL 3 COMMUNICATIONS | RELOCATE         |
| 2   | OH POWER     | 12kV | PG&E                   | RELOCATE         |
| 3   | OH POWER     | 12kV | PG&E                   | RELOCATE         |
| 4   | TELECOM      | NA   | AT&T                   | RELOCATE         |
| 5   | OH TELECOM   | NA   | AT&T                   | RELOCATE         |
| 6   | TELECOM      | NA   | AT&T                   | PROTECT-IN-PLACE |
| 7   | TELECOM      | NA   | AT&T                   | PROTECT-IN-PLACE |
| 8   | OIL          | 6"   | SHELL                  | RELOCATE         |
| 9   | OH POWER     | 480V | PG&E                   | RELOCATE         |
| 10  | OH POWER     | 480V | PG&E                   | REMOVE           |
| 11  | GAS          | NA   | VINTAGE PROD. CA       | RELOCATE         |
| 12  | TELECOM      | NA   | AT&T                   | RELOCATE         |
| 13  | UTILITY POLE | NA   | UNKNOWN                | REMOVE           |

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DATE<br>09/30/14        |

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NOT FOR  
CONSTRUCTION

CALIFORNIA HIGH-SPEED TRAIN

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5829+50 TO 5845+00

CONTRACT NO.  
HSR 06-0003

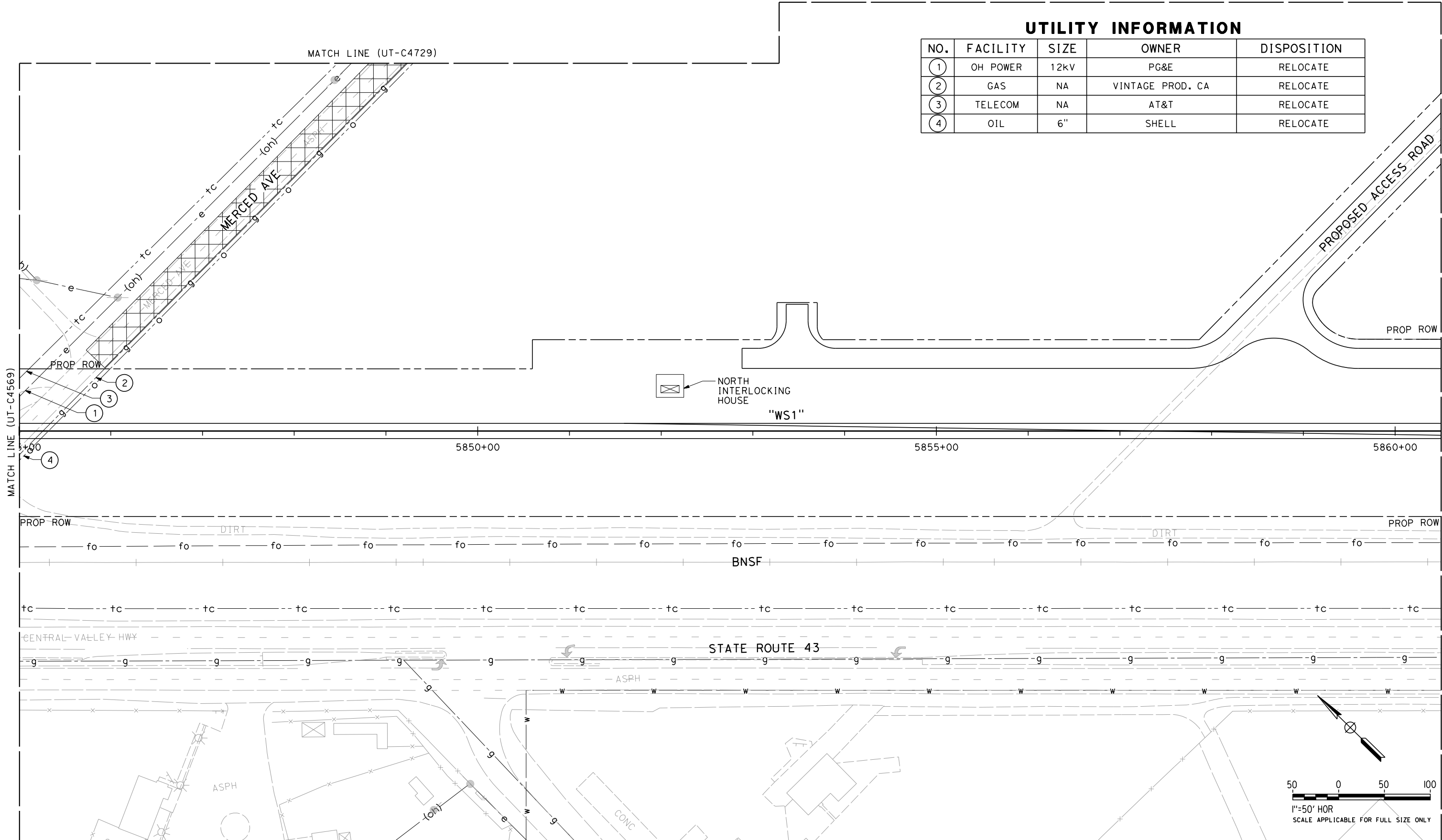
DRAWING NO.  
UT-C4569

SCALE  
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SHEET NO.  
78 OF 163

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| UTILITY INFORMATION |          |      |                  |             |
|---------------------|----------|------|------------------|-------------|
| NO.                 | FACILITY | SIZE | OWNER            | DISPOSITION |
| 1                   | OH POWER | 12kV | PG&E             | RELOCATE    |
| 2                   | GAS      | NA   | VINTAGE PROD. CA | RELOCATE    |
| 3                   | TELECOM  | NA   | AT&T             | RELOCATE    |
| 4                   | OIL      | 6"   | SHELL            | RELOCATE    |

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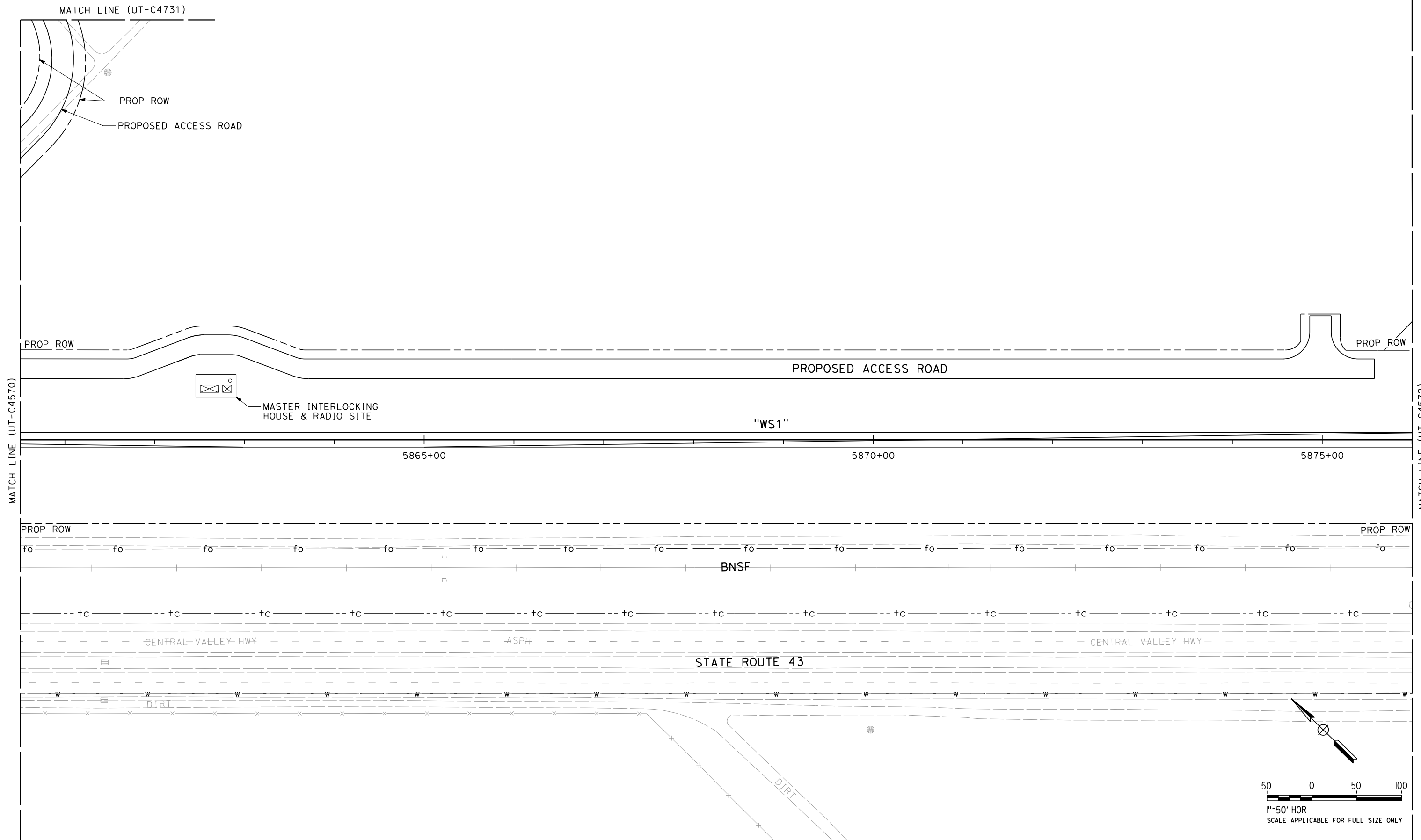
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5845+00 TO 5860+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4570     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>79 OF 163      |

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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5860+50 TO 5876+00

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4571  
SCALE  
AS SHOWN  
SHEET NO.  
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REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015



MATCH LINE (UT-C4573)

ROADWAY ROW 

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DATE 09/30/14

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA**  
HIGH-SPEED RAIL AUTHORITY

COMPOSITE UTILITY PLAN  
STA 5876+00 TO 5891+50

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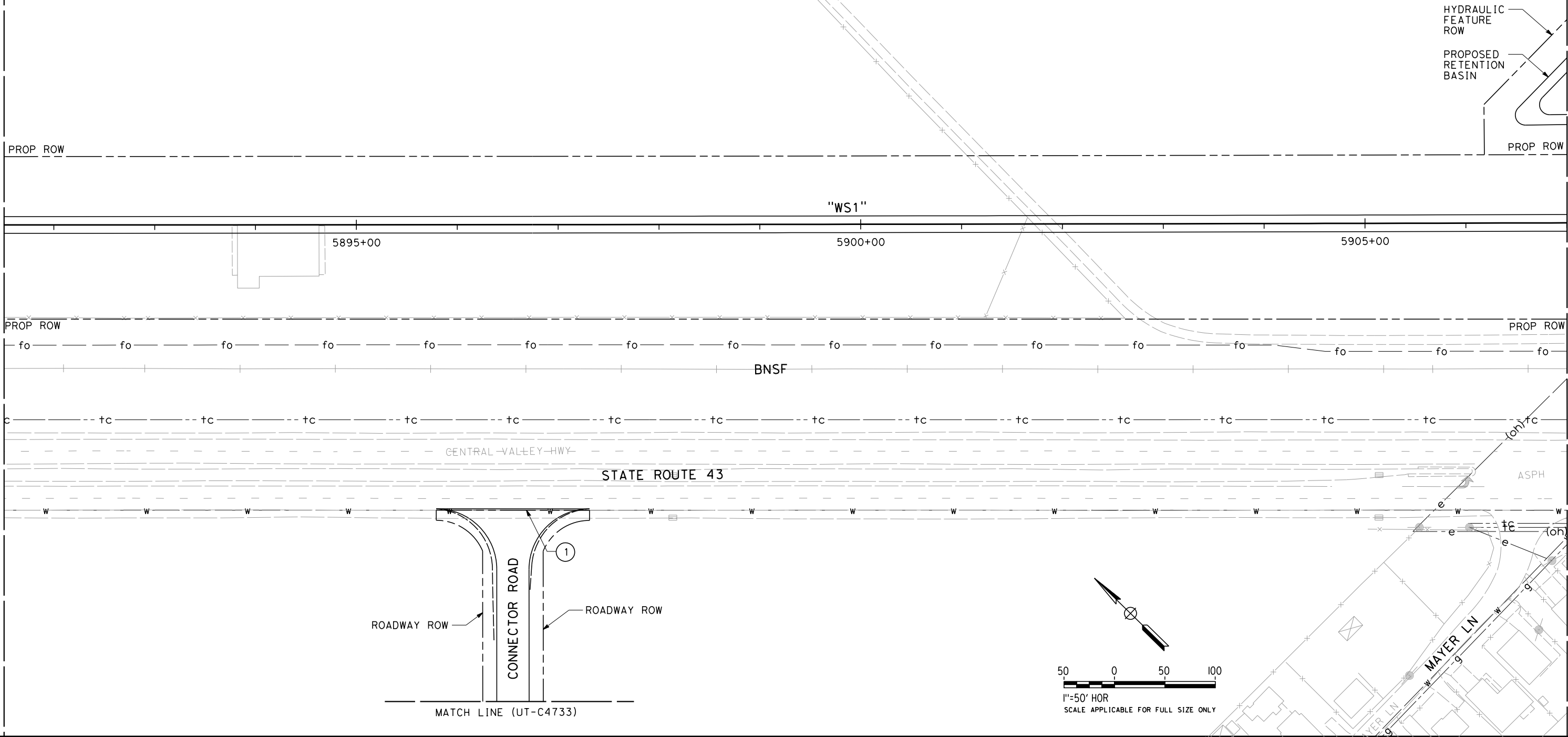
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MATCH LINE (UT-C4572)

MATCH LINE (UT-C4574)

UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER           | DISPOSITION      |
|-----|----------|------|-----------------|------------------|
| ①   | WATER    | 10"  | CITY OF SHAFTER | PROTECT-IN-PLACE |



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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
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CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5891+50 TO 5907+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4573     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>82 OF 163      |

REP No. HSR 14-32 - INITIAL RELEASE - 05/27/2015



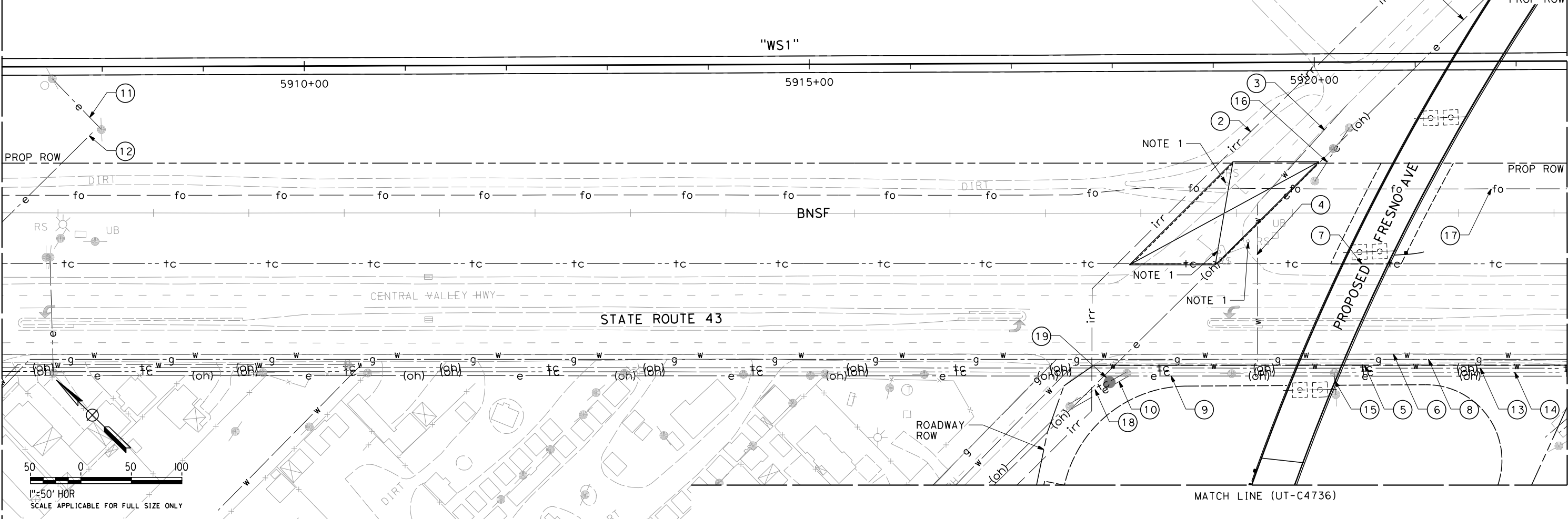
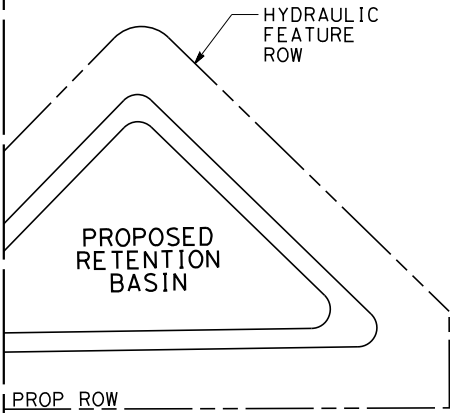
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UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION      |
|-----|--------------|------|-----------------------------------|------------------|
| 1   | OH POWER     | 12kV | PG&E                              | RELOCATE         |
| 2   | IRRIGATION   | 60"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE         |
| 3   | WATER        | 8"   | CITY OF SHAFTER                   | RELOCATE         |
| 4   | WATER        | 12"  | CITY OF SHAFTER                   | RELOCATE         |
| 5   | WATER        | 8"   | CITY OF SHAFTER                   | PROTECT-IN-PLACE |
| 6   | WATER        | 10"  | CITY OF SHAFTER                   | PROTECT-IN-PLACE |
| 7   | TELECOM      | NA   | AT&T                              | RELOCATE         |
| 8   | GAS          | 3"   | SEMPRA                            | PROTECT-IN-PLACE |
| 9   | OH POWER     | 12kV | PG&E                              | RELOCATE         |
| 10  | OH POWER     | 12kV | PG&E                              | RELOCATE         |
| 11  | OH POWER     | 240V | PG&E                              | RELOCATE         |
| 12  | OH POWER     | 12kV | PG&E                              | RELOCATE         |
| 13  | OH TELECOM   | NA   | AT&T                              | RELOCATE         |
| 14  | OH TELECOM   | NA   | BRIGHTHOUSE NETWORK               | RELOCATE         |
| 15  | OH POWER     | NA   | PG&E                              | RELOCATE         |
| 16  | OH POWER     | NA   | PG&E                              | RELOCATE         |
| 17  | FIBER OPTIC  | NA   | LEVEL 3 COMMUNICATIONS            | PROTECT-IN-PLACE |
| 18  | OH TELECOM   | NA   | AT&T                              | RELOCATE         |
| 19  | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE         |

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.



DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

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PRELIMINARY  
DESIGN  
  
NOT FOR  
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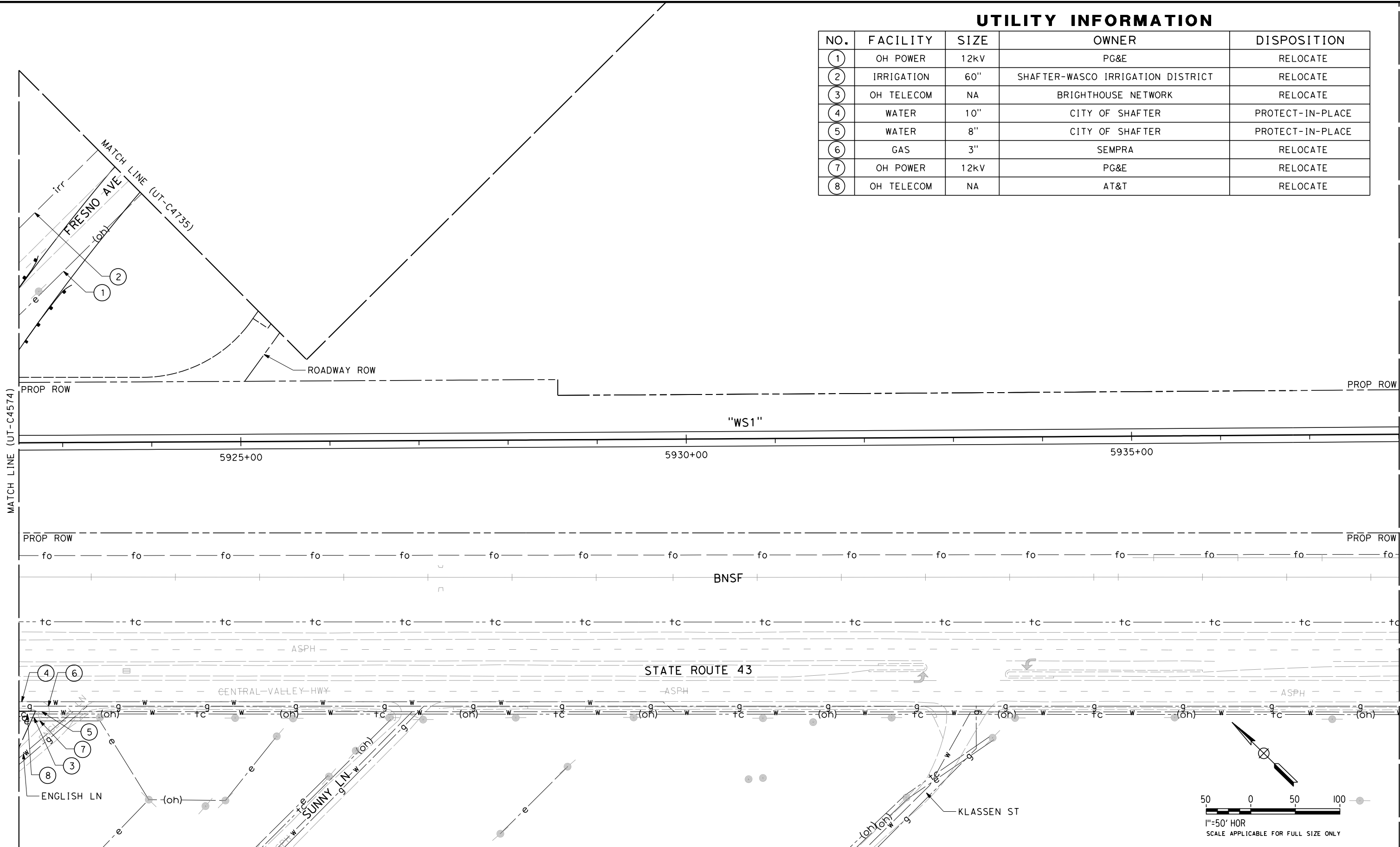


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5907+00 TO 5922+50

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4574  
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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION      |
|-----|------------|------|-----------------------------------|------------------|
| ①   | OH POWER   | 12kV | PG&E                              | RELOCATE         |
| ②   | IRRIGATION | 60"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE         |
| ③   | OH TELECOM | NA   | BRIGHTHOUSE NETWORK               | RELOCATE         |
| ④   | WATER      | 10"  | CITY OF SHAFTER                   | PROTECT-IN-PLACE |
| ⑤   | WATER      | 8"   | CITY OF SHAFTER                   | PROTECT-IN-PLACE |
| ⑥   | GAS        | 3"   | SEMPRA                            | RELOCATE         |
| ⑦   | OH POWER   | 12kV | PG&E                              | RELOCATE         |
| ⑧   | OH TELECOM | NA   | AT&T                              | RELOCATE         |

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



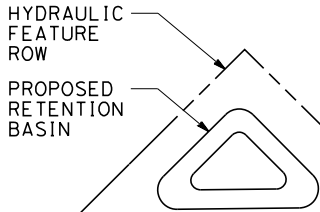
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5922+50 TO 5938+00

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4575     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>84 OF 163      |

REF No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER   | DISPOSITION |
|-----|------------|------|---------|-------------|
| 1   | OH POWER   | 12kV | PG&E    | RELOCATE    |
| 2   | OH TELECOM | NA   | UNKNOWN | RELOCATE    |



SRS 17B

PROPOSED ACCESS ROAD

"WS1"

5940+00

5945+00

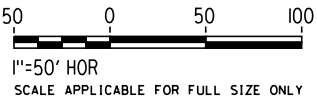
5950+00

STATE ROUTE 43

CENTRAL VALLEY HWY

VENABLE LN

VOTH LN



|                         |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5938+00 TO 5953+50

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4576     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>85 OF 163      |

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ORT52801

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER          | DISPOSITION |
|-----|------------|------|----------------|-------------|
| 1   | OH POWER   | 12kV | PG&E           | RELOCATE    |
| 2   | OH POWER   | 12kV | PG&E           | RELOCATE    |
| 3   | WATER      | 12"  | CITY OF SHAFER | RELOCATE    |
| 4   | WATER      | 10"  | CITY OF SHAFER | RELOCATE    |
| 5   | WATER      | 10"  | CITY OF SHAFER | RELOCATE    |
| 6   | WATER      | 10"  | CITY OF SHAFER | RELOCATE    |
| 7   | GAS        | 3"   | SEMPRA         | RELOCATE    |
| 8   | TELECOM    | NA   | AT&T           | RELOCATE    |
| 9   | OH TELECOM | NA   | AT&T           | RELOCATE    |
| 10  | OH POWER   | 12kV | PG&E           | REMOVE      |

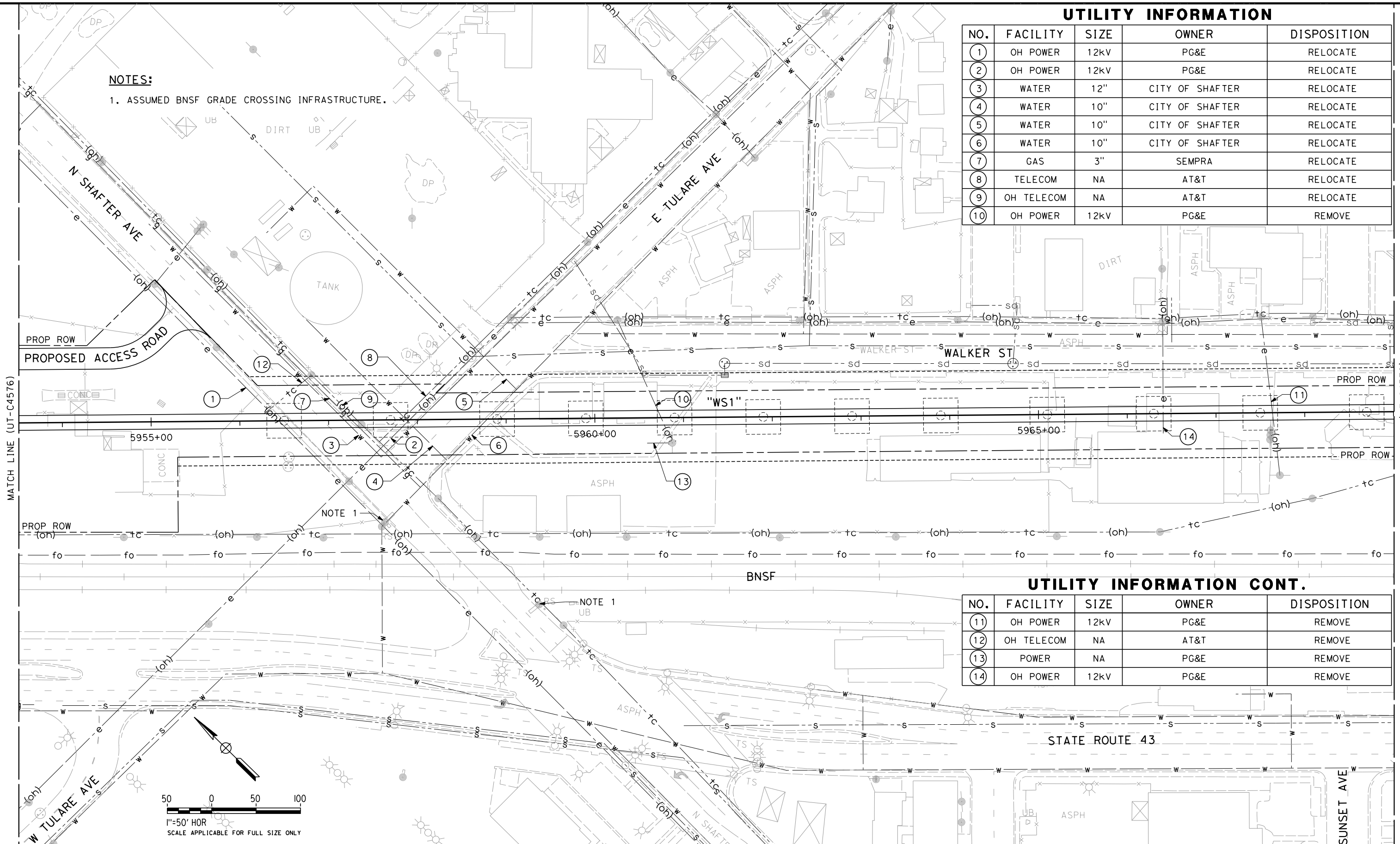
UTILITY INFORMATION CONT.

| NO. | FACILITY   | SIZE | OWNER | DISPOSITION |
|-----|------------|------|-------|-------------|
| 11  | OH POWER   | 12kV | PG&E  | REMOVE      |
| 12  | OH TELECOM | NA   | AT&T  | REMOVE      |
| 13  | POWER      | NA   | PG&E  | REMOVE      |
| 14  | OH POWER   | 12kV | PG&E  | REMOVE      |

REP No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

MATCH LINE (UT-C4576)

MATCH LINE (UT-C4578)



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



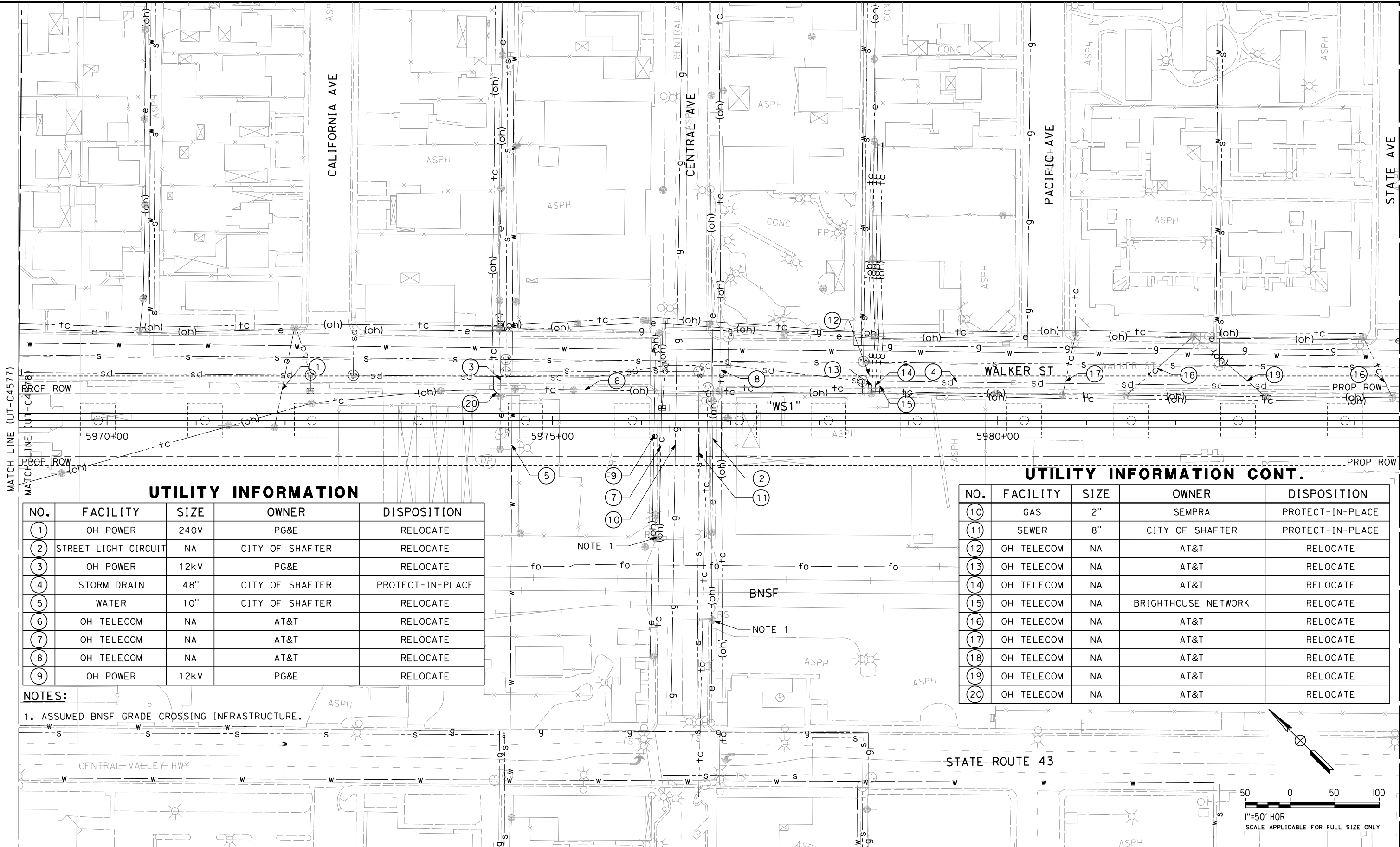
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5953+50 TO 5969+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4577     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>86 OF 163      |



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UTILITY INFORMATION

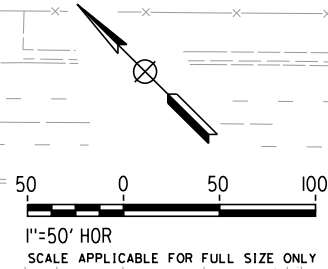
| NO. | FACILITY             | SIZE | OWNER           | DISPOSITION      |
|-----|----------------------|------|-----------------|------------------|
| 1   | OH POWER             | 240V | PG&E            | RELOCATE         |
| 2   | STREET LIGHT CIRCUIT | NA   | CITY OF SHAFTER | RELOCATE         |
| 3   | OH POWER             | 12kV | PG&E            | RELOCATE         |
| 4   | STORM DRAIN          | 48"  | CITY OF SHAFTER | PROTECT-IN-PLACE |
| 5   | WATER                | 10"  | CITY OF SHAFTER | RELOCATE         |
| 6   | OH TELECOM           | NA   | AT&T            | RELOCATE         |
| 7   | OH TELECOM           | NA   | AT&T            | RELOCATE         |
| 8   | OH TELECOM           | NA   | AT&T            | RELOCATE         |
| 9   | OH POWER             | 12kV | PG&E            | RELOCATE         |

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

UTILITY INFORMATION CONT.

| NO. | FACILITY   | SIZE | OWNER               | DISPOSITION      |
|-----|------------|------|---------------------|------------------|
| 10  | GAS        | 2"   | SEMPRA              | PROTECT-IN-PLACE |
| 11  | SEWER      | 8"   | CITY OF SHAFTER     | PROTECT-IN-PLACE |
| 12  | OH TELECOM | NA   | AT&T                | RELOCATE         |
| 13  | OH TELECOM | NA   | AT&T                | RELOCATE         |
| 14  | OH TELECOM | NA   | AT&T                | RELOCATE         |
| 15  | OH TELECOM | NA   | BRIGHTHOUSE NETWORK | RELOCATE         |
| 16  | OH TELECOM | NA   | AT&T                | RELOCATE         |
| 17  | OH TELECOM | NA   | AT&T                | RELOCATE         |
| 18  | OH TELECOM | NA   | AT&T                | RELOCATE         |
| 19  | OH TELECOM | NA   | AT&T                | RELOCATE         |
| 20  | OH TELECOM | NA   | AT&T                | RELOCATE         |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5969+00 TO 5984+50

|                             |
|-----------------------------|
| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4578     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>87 OF 163      |

REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER           | DISPOSITION |
|-----|------------|------|-----------------|-------------|
| 1   | OH TELECOM | NA   | AT&T            | RELOCATE    |
| 2   | OH TELECOM | NA   | AT&T            | RELOCATE    |
| 3   | OH TELECOM | NA   | AT&T            | RELOCATE    |
| 4   | SEWER      | 10"  | CITY OF SHAFTER | RELOCATE    |
| 5   | WATER      | 6"   | CITY OF SHAFTER | RELOCATE    |
| 6   | OH TELECOM | NA   | AT&T            | RELOCATE    |
| 7   | OH POWER   | 12kV | PG&E            | RELOCATE    |
| 8   | OH POWER   | 12kV | PG&E            | RELOCATE    |
| 9   | GAS        | 2"   | SEMPRA          | RELOCATE    |
| 10  | OH TELECOM | NA   | AT&T            | RELOCATE    |
| 11  | OH POWER   | 12kV | PG&E            | RELOCATE    |

UTILITY INFORMATION CONT.

| NO. | FACILITY             | SIZE | OWNER           | DISPOSITION |
|-----|----------------------|------|-----------------|-------------|
| 12  | GAS                  | 6"   | SEMPRA          | RELOCATE    |
| 13  | WATER                | 8"   | CITY OF SHAFTER | RELOCATE    |
| 14  | WATER                | 8"   | CITY OF SHAFTER | RELOCATE    |
| 15  | OH POWER             | 12kV | PG&E            | RELOCATE    |
| 16  | OH TELECOM           | NA   | AT&T            | RELOCATE    |
| 17  | STORM DRAIN          | 48"  | CITY OF SHAFTER | RELOCATE    |
| 18  | STREET LIGHT CIRCUIT | NA   | CITY OF SHAFTER | RELOCATE    |
| 19  | OH POWER             | NA   | PG&E            | RELOCATE    |
| 20  | GAS                  | 2"   | SEMPRA          | REMOVE      |
| 21  | GAS                  | 2"   | SEMPRA          | REMOVE      |
| 22  | OH TELECOM           | NA   | AT&T            | RELOCATE    |
| 23  | STORM DRAIN          | NA   | CITY OF SHAFTER | RELOCATE    |

STATE ROUTE 43



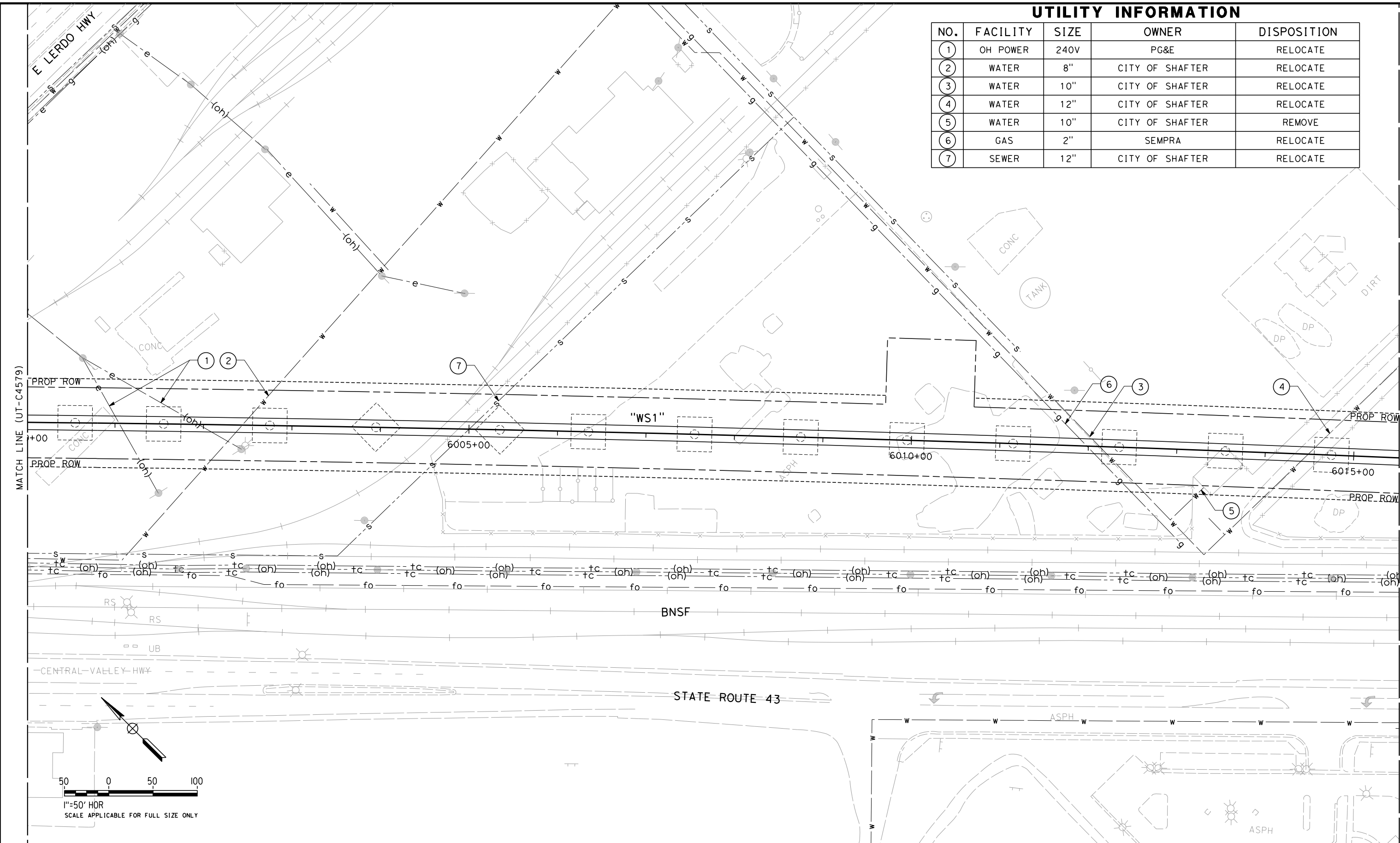
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 5984+50 TO 6000+00

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4579  
SCALE  
AS SHOWN  
SHEET NO.  
88 OF 163

REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

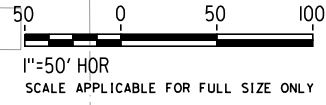
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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER           | DISPOSITION |
|-----|----------|------|-----------------|-------------|
| ①   | OH POWER | 240V | PG&E            | RELOCATE    |
| ②   | WATER    | 8"   | CITY OF SHAFTER | RELOCATE    |
| ③   | WATER    | 10"  | CITY OF SHAFTER | RELOCATE    |
| ④   | WATER    | 12"  | CITY OF SHAFTER | RELOCATE    |
| ⑤   | WATER    | 10"  | CITY OF SHAFTER | REMOVE      |
| ⑥   | GAS      | 2"   | SEMPRA          | RELOCATE    |
| ⑦   | SEWER    | 12"  | CITY OF SHAFTER | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6000+00 TO 6015+50

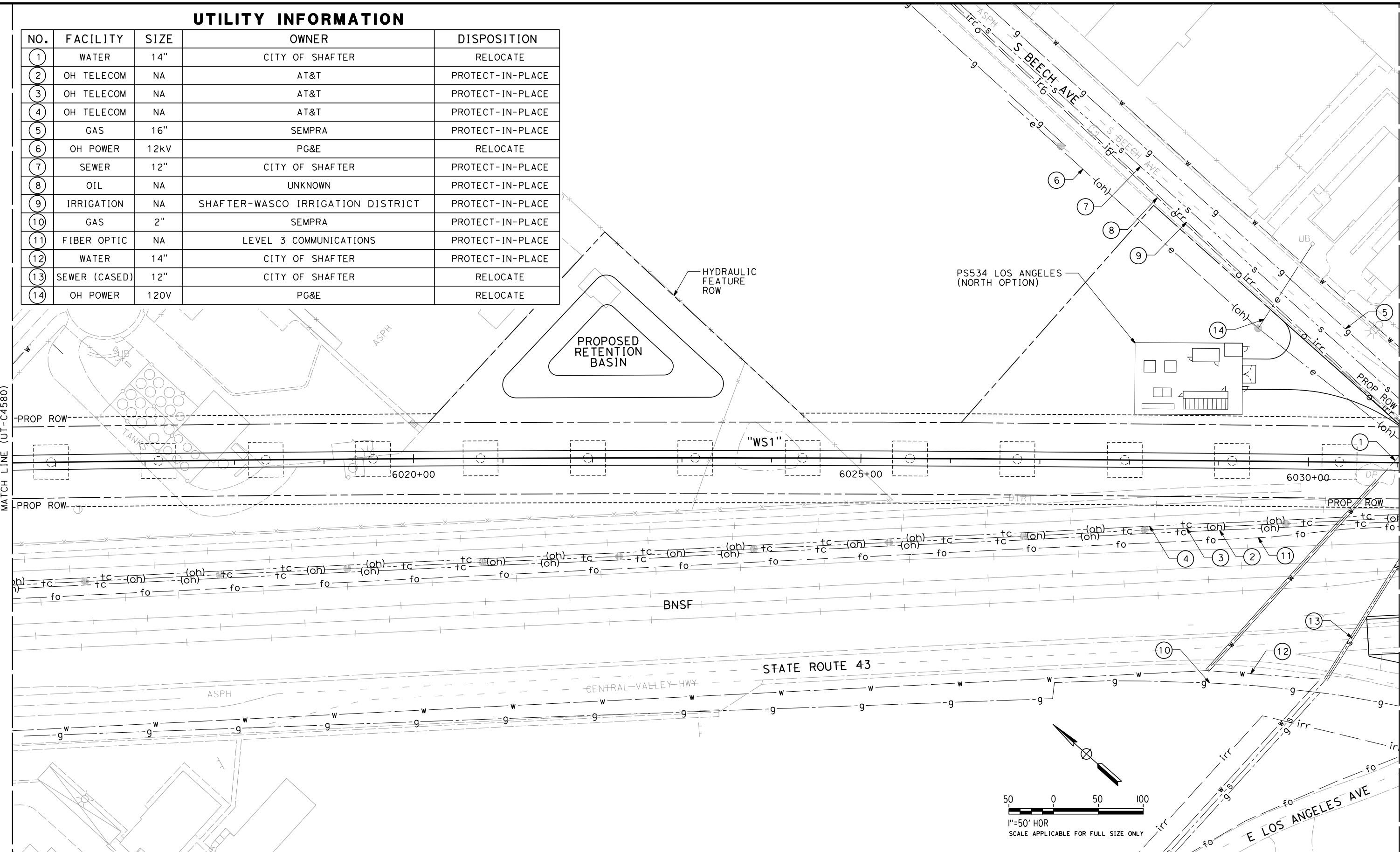
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4580  
SCALE  
AS SHOWN  
SHEET NO.  
89 OF 163

REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015



UTILITY INFORMATION

| NO. | FACILITY      | SIZE | OWNER                             | DISPOSITION      |
|-----|---------------|------|-----------------------------------|------------------|
| 1   | WATER         | 14"  | CITY OF SHAFTER                   | RELOCATE         |
| 2   | OH TELECOM    | NA   | AT&T                              | PROTECT-IN-PLACE |
| 3   | OH TELECOM    | NA   | AT&T                              | PROTECT-IN-PLACE |
| 4   | OH TELECOM    | NA   | AT&T                              | PROTECT-IN-PLACE |
| 5   | GAS           | 16"  | SEMPRA                            | PROTECT-IN-PLACE |
| 6   | OH POWER      | 12kV | PG&E                              | RELOCATE         |
| 7   | SEWER         | 12"  | CITY OF SHAFTER                   | PROTECT-IN-PLACE |
| 8   | OIL           | NA   | UNKNOWN                           | PROTECT-IN-PLACE |
| 9   | IRRIGATION    | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| 10  | GAS           | 2"   | SEMPRA                            | PROTECT-IN-PLACE |
| 11  | FIBER OPTIC   | NA   | LEVEL 3 COMMUNICATIONS            | PROTECT-IN-PLACE |
| 12  | WATER         | 14"  | CITY OF SHAFTER                   | PROTECT-IN-PLACE |
| 13  | SEWER (CASED) | 12"  | CITY OF SHAFTER                   | RELOCATE         |
| 14  | OH POWER      | 120V | PG&E                              | RELOCATE         |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6015+50 TO 6031+00

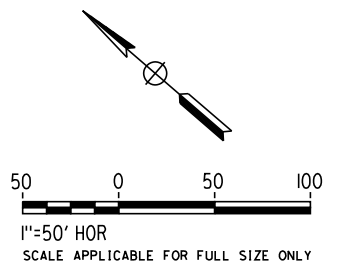
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4581     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>90 OF 163      |

REP No. HSR 14-32 - INITIAL RELEASE - 05/27/2015



| NO. | FACILITY           | SIZE | OWNER                             | DISPOSITION      |
|-----|--------------------|------|-----------------------------------|------------------|
| ①   | GAS                | 16"  | SEMPRA                            | RELOCATE         |
| ②   | IRRIGATION         | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE         |
| ③   | WATER              | 14"  | CITY OF SHAFTER                   | RELOCATE         |
| ④   | SEWER (CASED)      | 12"  | CITY OF SHAFTER                   | RELOCATE         |
| ⑤   | IRRIGATION         | 21"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE         |
| ⑥   | OH POWER           | 12kV | PG&E                              | RELOCATE         |
| ⑦   | OH POWER           | NA   | PG&E                              | RELOCATE         |
| ⑧   | GAS                | 22"  | SEMPRA                            | PROTECT-IN-PLACE |
| ⑨   | WATER              | 12"  | CITY OF SHAFTER                   | RELOCATE         |
| ⑩   | IRRIGATION (CASED) | 42"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE         |
| ⑪   | OIL                | NA   | UNKNOWN                           | RELOCATE         |
| ⑫   | OH POWER           | 12kV | PG&E                              | RELOCATE         |
| ⑬   | OH POWER           | 12kV | PG&E                              | RELOCATE         |
| ⑭   | FIBER OPTIC        | NA   | LEVEL 3 COMMUNICATIONS            | RELOCATE         |
| ⑮   | WATER              | 12"  | CITY OF SHAFTER                   | RELOCATE         |

| NO. | FACILITY    | SIZE | OWNER                             | DISPOSITION |
|-----|-------------|------|-----------------------------------|-------------|
| 16  | SEWER       | 12"  | CITY OF SHAFTER                   | RELOCATE    |
| 17  | OH TELECOM  | NA   | AT&T                              | RELOCATE    |
| 18  | OH TELECOM  | NA   | AT&T                              | RELOCATE    |
| 19  | FIBER OPTIC | NA   | AT&T                              | RELOCATE    |
| 20  | WATER       | 18"  | CITY OF SHAFTER                   | RELOCATE    |
| 21  | OH POWER    | 480V | PG&E                              | RELOCATE    |
| 22  | IRRIGATION  | 42"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |



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| REV | DATE | BY | CHK | APP | DESCRIPTION |

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/          |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



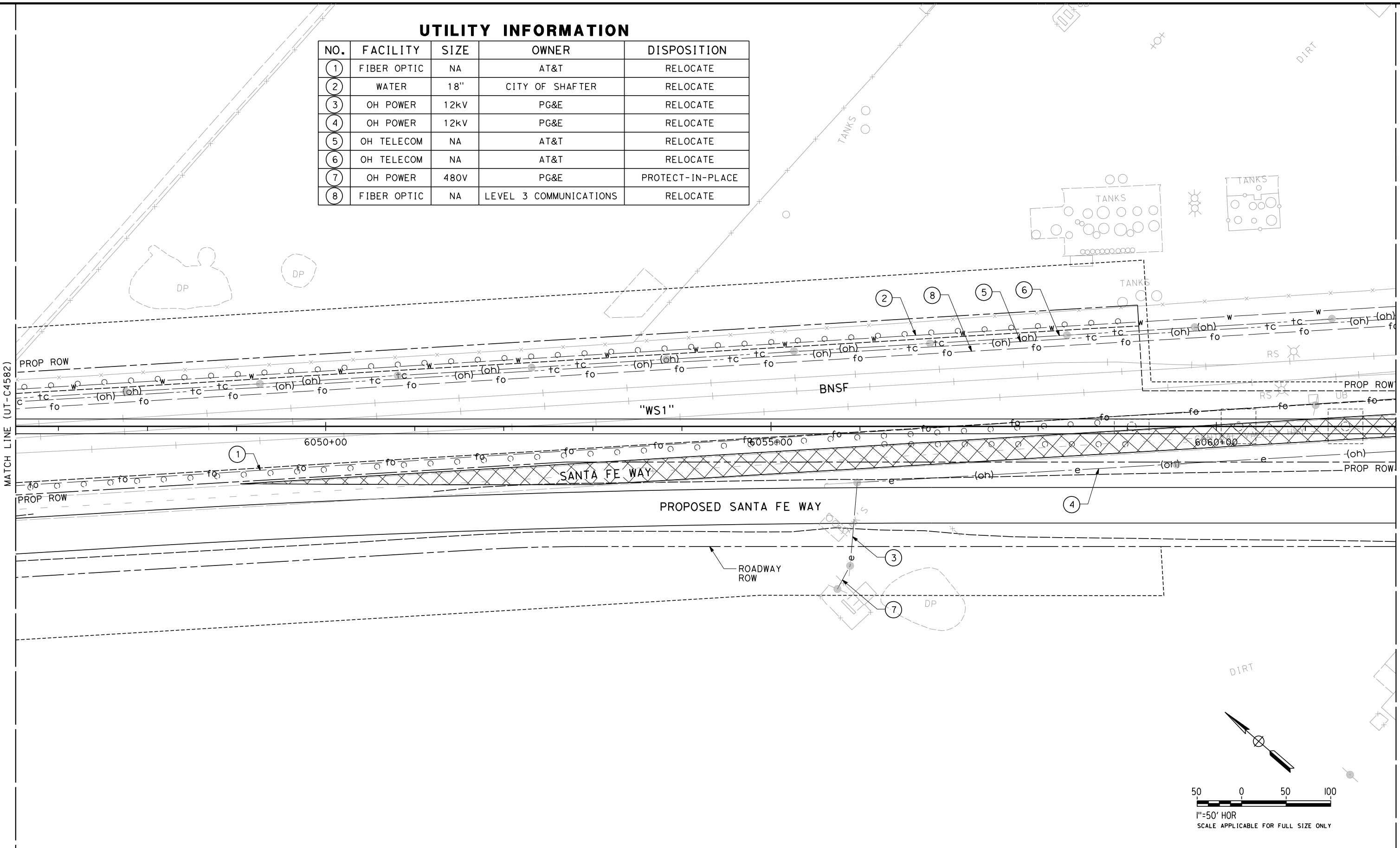
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
 PACKAGE 4 - ALIGNMENT WS1  
 UTILITIES  
 COMPOSITE UTILITY PLAN  
 STA 6031+00 TO 6046+50

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| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO.  | UT-C4582    |
| SCALE        | AS SHOWN    |
| SHEET NO.    | 91 OF 163   |

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UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER                  | DISPOSITION      |
|-----|-------------|------|------------------------|------------------|
| ①   | FIBER OPTIC | NA   | AT&T                   | RELOCATE         |
| ②   | WATER       | 18"  | CITY OF SHAFTER        | RELOCATE         |
| ③   | OH POWER    | 12kV | PG&E                   | RELOCATE         |
| ④   | OH POWER    | 12kV | PG&E                   | RELOCATE         |
| ⑤   | OH TELECOM  | NA   | AT&T                   | RELOCATE         |
| ⑥   | OH TELECOM  | NA   | AT&T                   | RELOCATE         |
| ⑦   | OH POWER    | 480V | PG&E                   | PROTECT-IN-PLACE |
| ⑧   | FIBER OPTIC | NA   | LEVEL 3 COMMUNICATIONS | RELOCATE         |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
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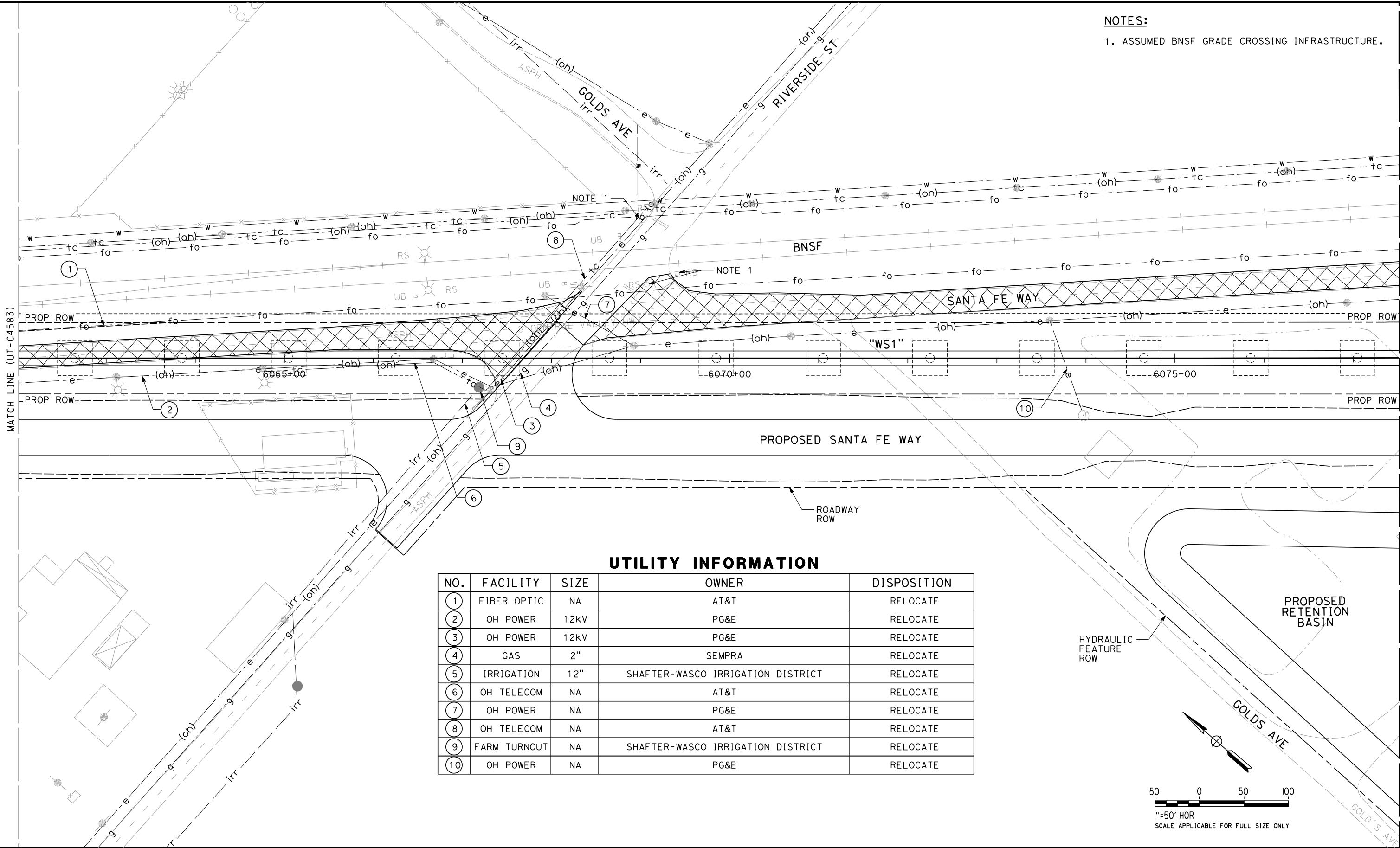
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6046+50 TO 6062+00

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4583     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>92 OF 163      |



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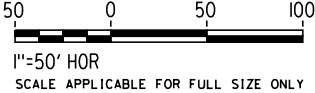
NOTES:  
1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION |
|-----|--------------|------|-----------------------------------|-------------|
| 1   | FIBER OPTIC  | NA   | AT&T                              | RELOCATE    |
| 2   | OH POWER     | 12KV | PG&E                              | RELOCATE    |
| 3   | OH POWER     | 12KV | PG&E                              | RELOCATE    |
| 4   | GAS          | 2"   | SEMPRA                            | RELOCATE    |
| 5   | IRRIGATION   | 12"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| 6   | OH TELECOM   | NA   | AT&T                              | RELOCATE    |
| 7   | OH POWER     | NA   | PG&E                              | RELOCATE    |
| 8   | OH TELECOM   | NA   | AT&T                              | RELOCATE    |
| 9   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| 10  | OH POWER     | NA   | PG&E                              | RELOCATE    |

HYDRAULIC  
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6062+00 TO 6077+50

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4584  
SCALE  
AS SHOWN  
SHEET NO.  
93 OF 163

REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

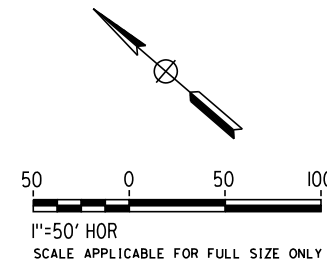
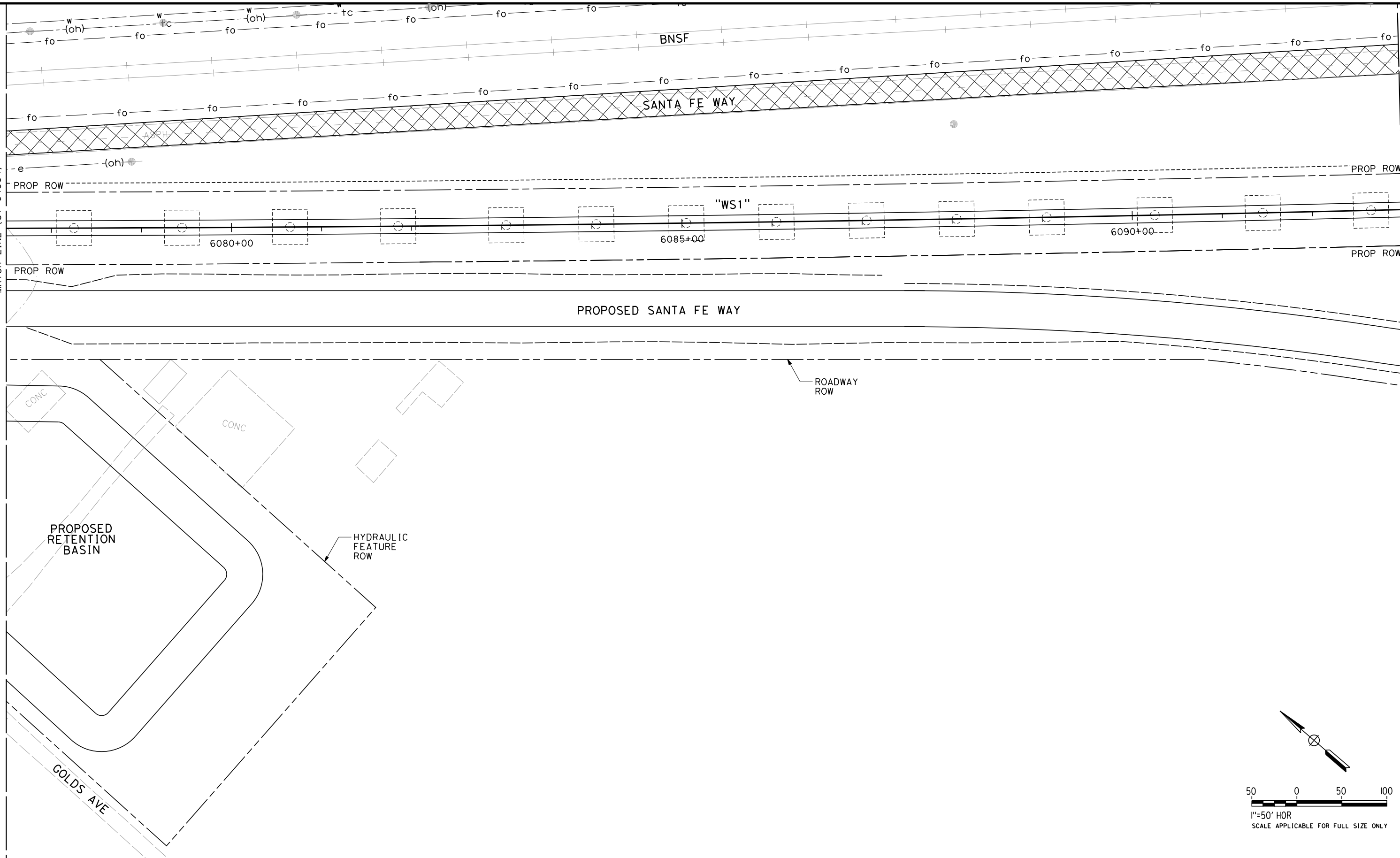
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ORT52801

MATCH LINE (UT-C4584)

MATCH LINE (UT-C4586)

RFP No. HSR 14-32 - INITIAL RELEASE - 05/27/2015



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6077+50 TO 6093+00

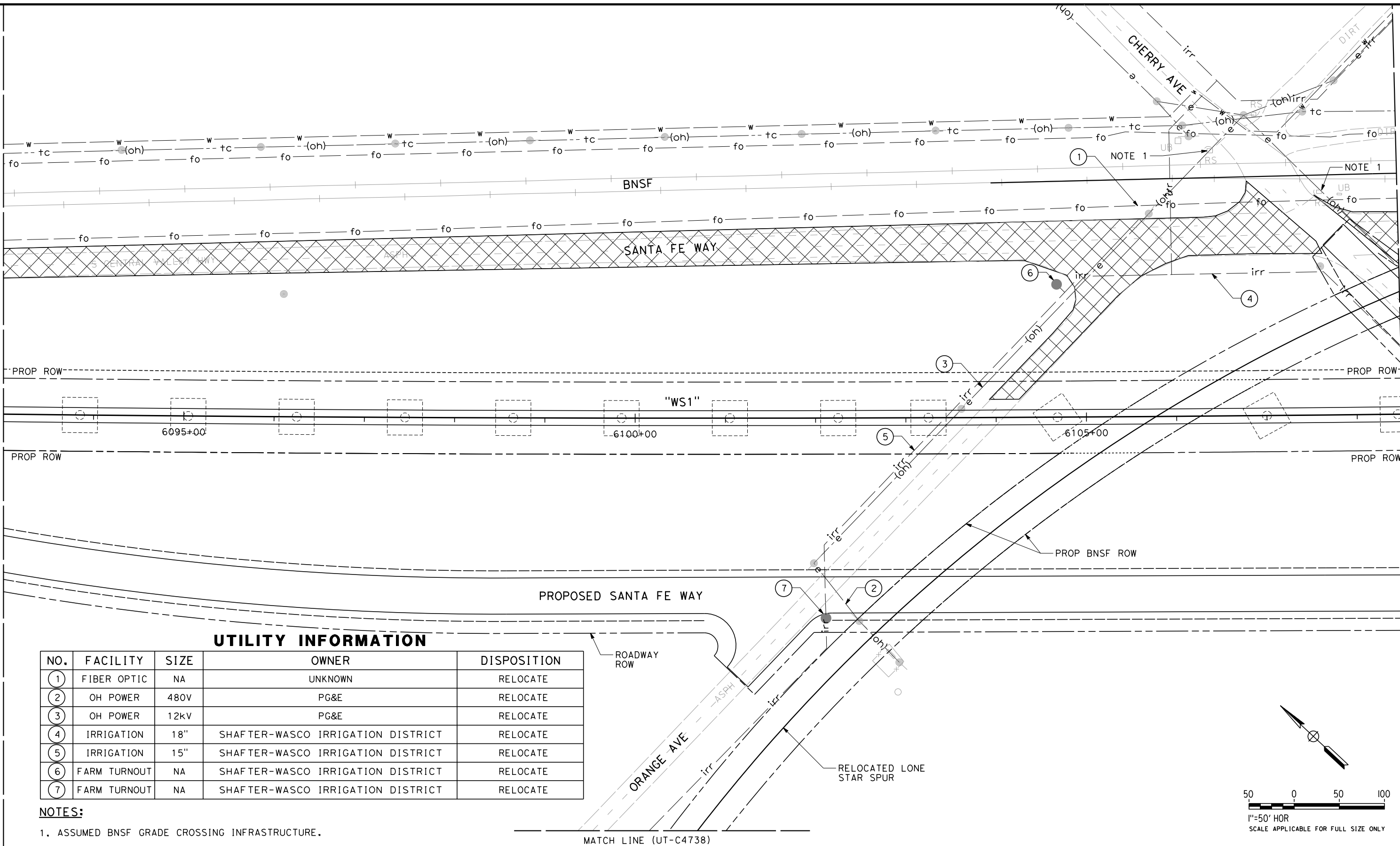
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4585     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>94 OF 163      |

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ORT52801

MATCH LINE (UT-C4585)

MATCH LINE (UT-C4587)  
RFP No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

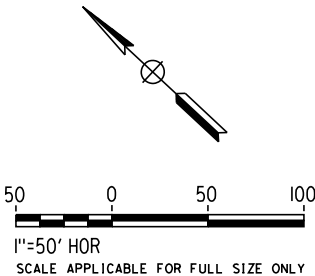


UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION |
|-----|--------------|------|-----------------------------------|-------------|
| 1   | FIBER OPTIC  | NA   | UNKNOWN                           | RELOCATE    |
| 2   | OH POWER     | 480V | PG&E                              | RELOCATE    |
| 3   | OH POWER     | 12kV | PG&E                              | RELOCATE    |
| 4   | IRRIGATION   | 18"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| 5   | IRRIGATION   | 15"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| 6   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| 7   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |

NOTES:

1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



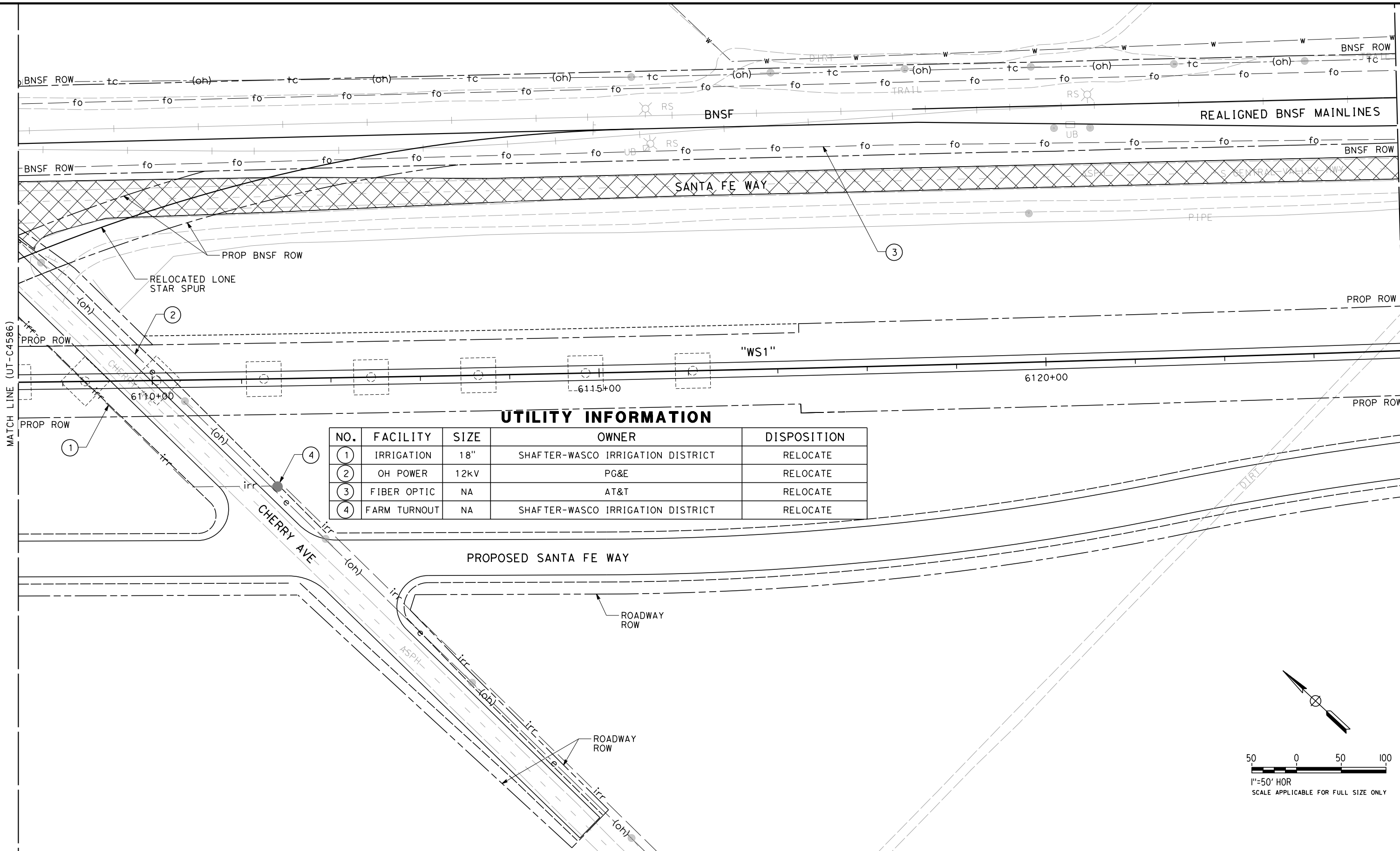
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6093+00 TO 6108+50

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4586     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>95 OF 163      |



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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

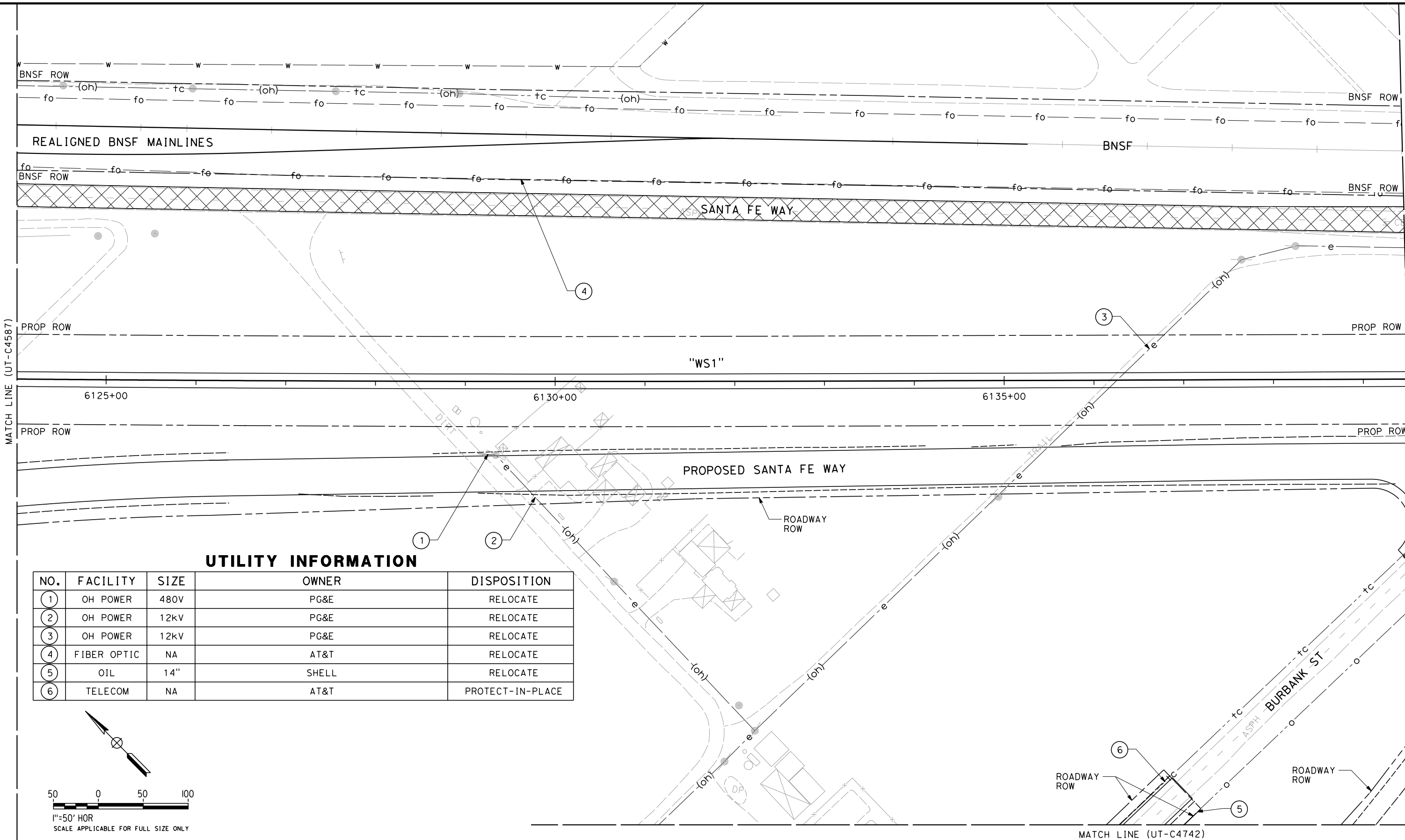
PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6108+50 TO 6124+00

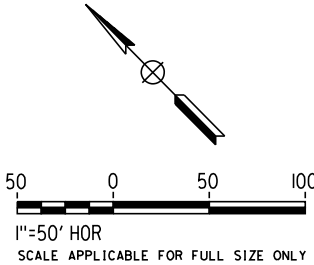
CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4587  
SCALE  
AS SHOWN  
SHEET NO.  
96 OF 163

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UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER | DISPOSITION      |
|-----|-------------|------|-------|------------------|
| ①   | OH POWER    | 480V | PG&E  | RELOCATE         |
| ②   | OH POWER    | 12KV | PG&E  | RELOCATE         |
| ③   | OH POWER    | 12KV | PG&E  | RELOCATE         |
| ④   | FIBER OPTIC | NA   | AT&T  | RELOCATE         |
| ⑤   | OIL         | 14"  | SHELL | RELOCATE         |
| ⑥   | TELECOM     | NA   | AT&T  | PROTECT-IN-PLACE |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



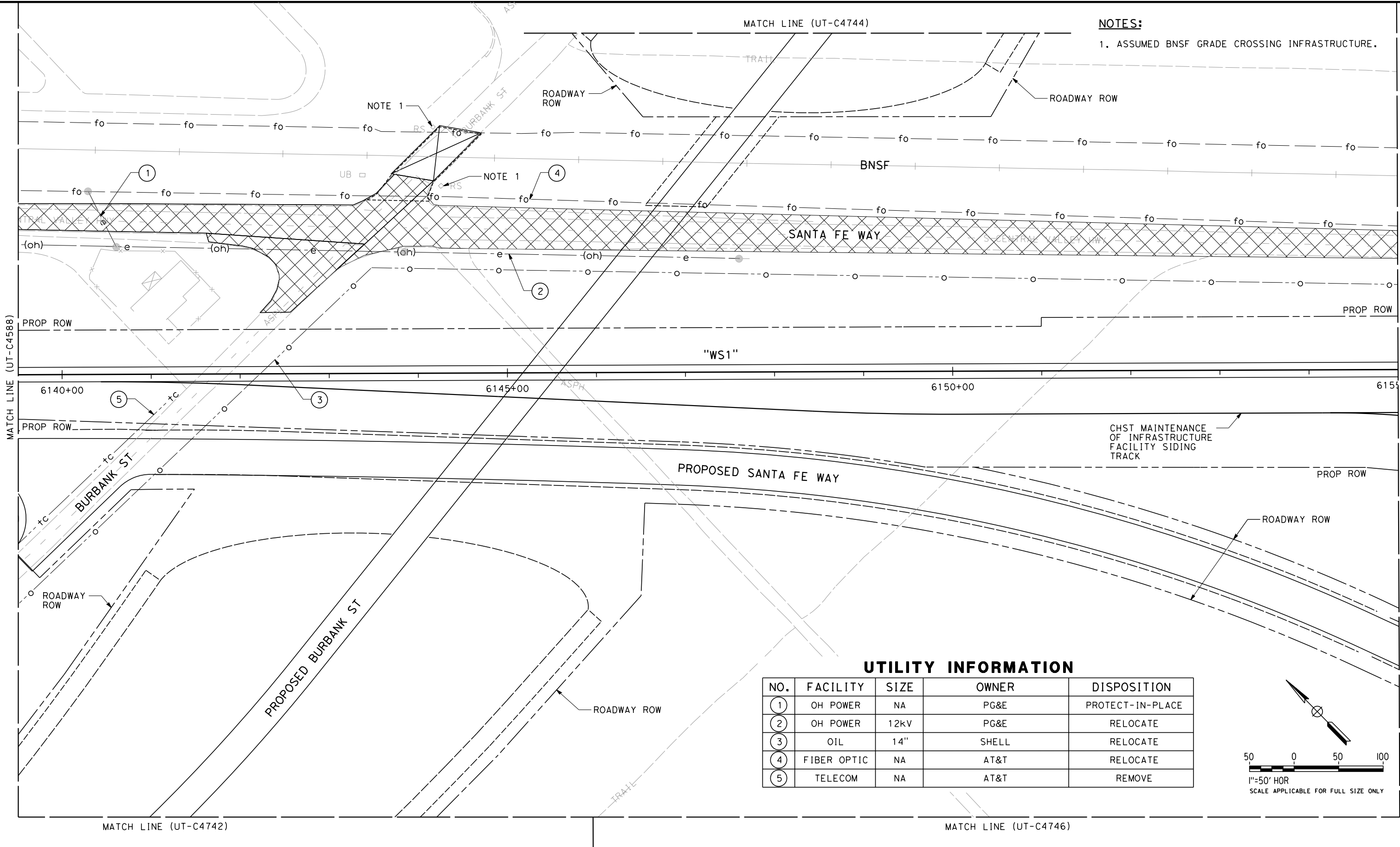
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6124+00 TO 6139+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4588     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>97 OF 163      |

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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6139+50 TO 6155+00

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4589  
SCALE  
AS SHOWN  
SHEET NO.  
98 OF 163

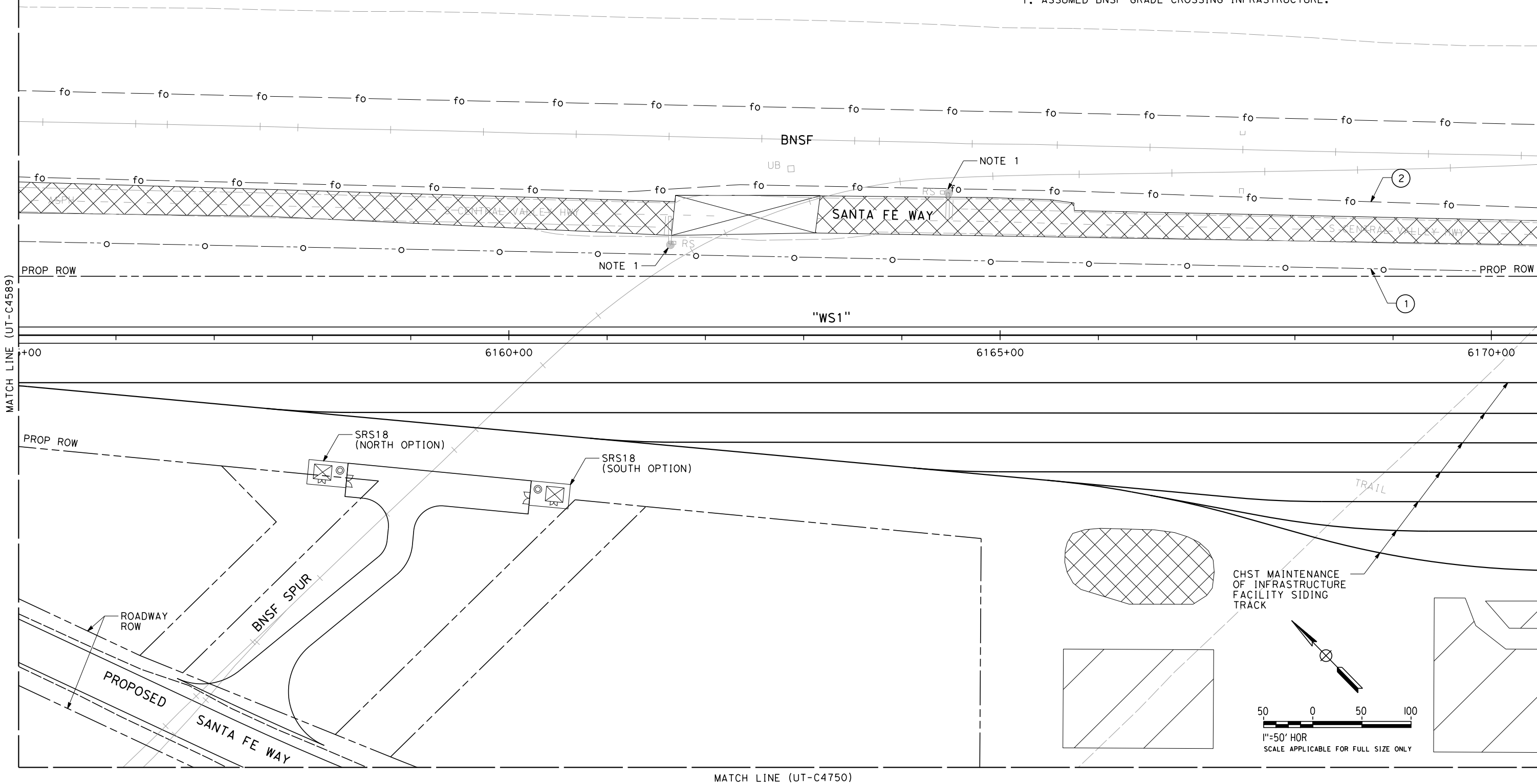
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UTILITY INFORMATION

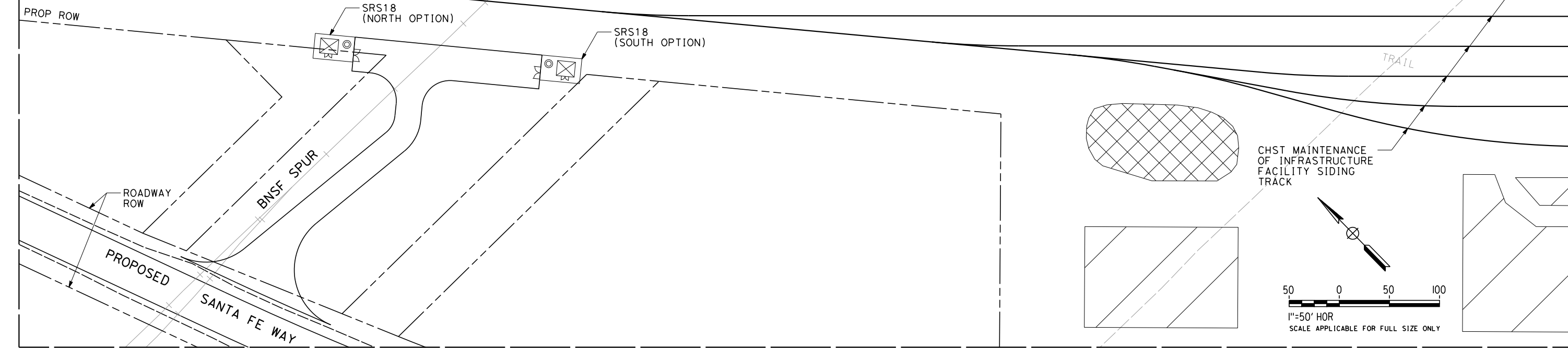
| NO. | FACILITY    | SIZE | OWNER | DISPOSITION |
|-----|-------------|------|-------|-------------|
| ①   | OIL         | 14"  | SHELL | RELOCATE    |
| ②   | FIBER OPTIC | NA   | AT&T  | RELOCATE    |

NOTES:  
1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.



MATCH LINE (UT-C4589)

MATCH LINE (UT-C4591)



MATCH LINE (UT-C4750)

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



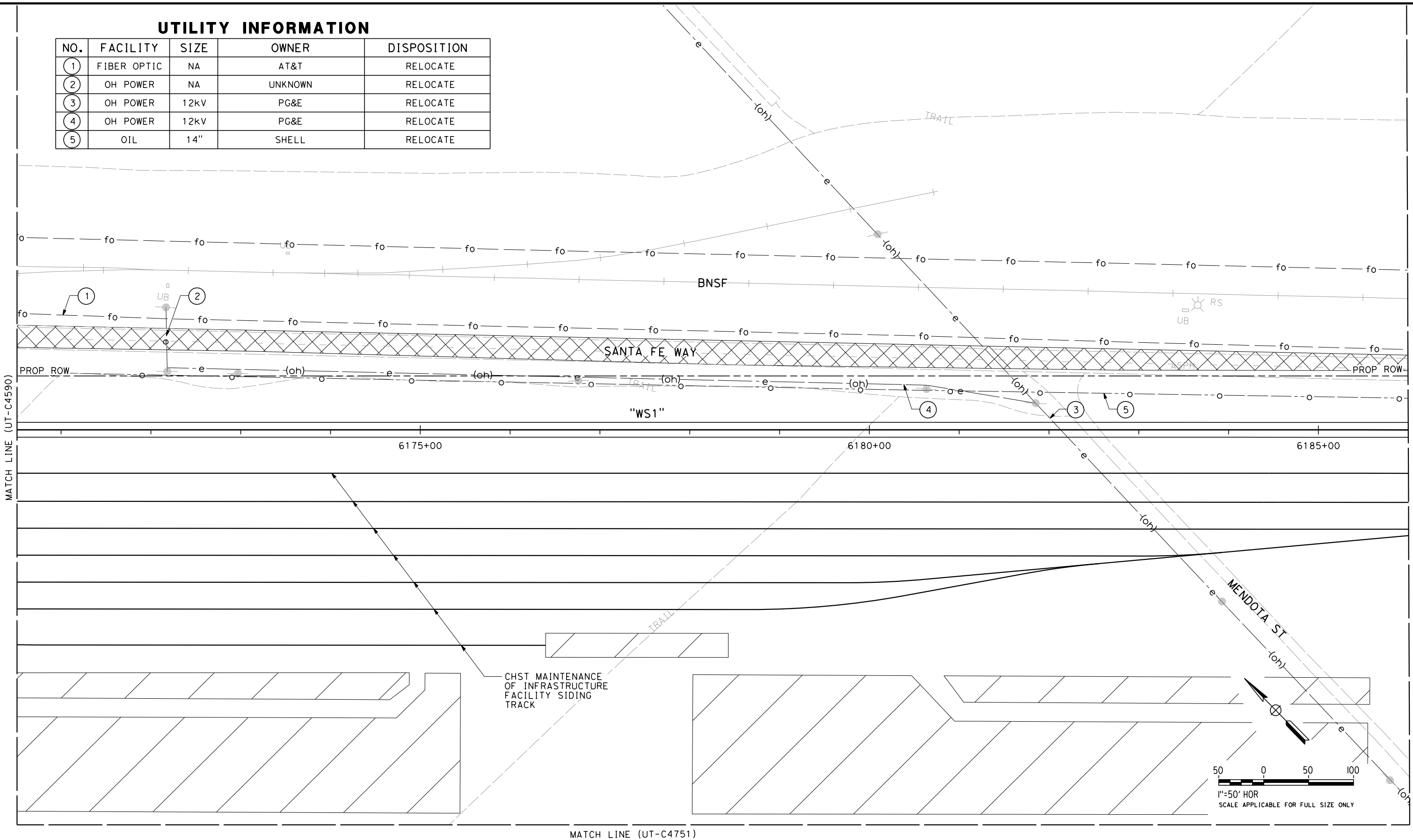
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6155+00 TO 6170+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4590     |
| SCALE<br>AS SHOWN           |
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UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER   | DISPOSITION |
|-----|-------------|------|---------|-------------|
| ①   | FIBER OPTIC | NA   | AT&T    | RELOCATE    |
| ②   | OH POWER    | NA   | UNKNOWN | RELOCATE    |
| ③   | OH POWER    | 12kV | PG&E    | RELOCATE    |
| ④   | OH POWER    | 12kV | PG&E    | RELOCATE    |
| ⑤   | OIL         | 14"  | SHELL   | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6170+50 TO 6186+00

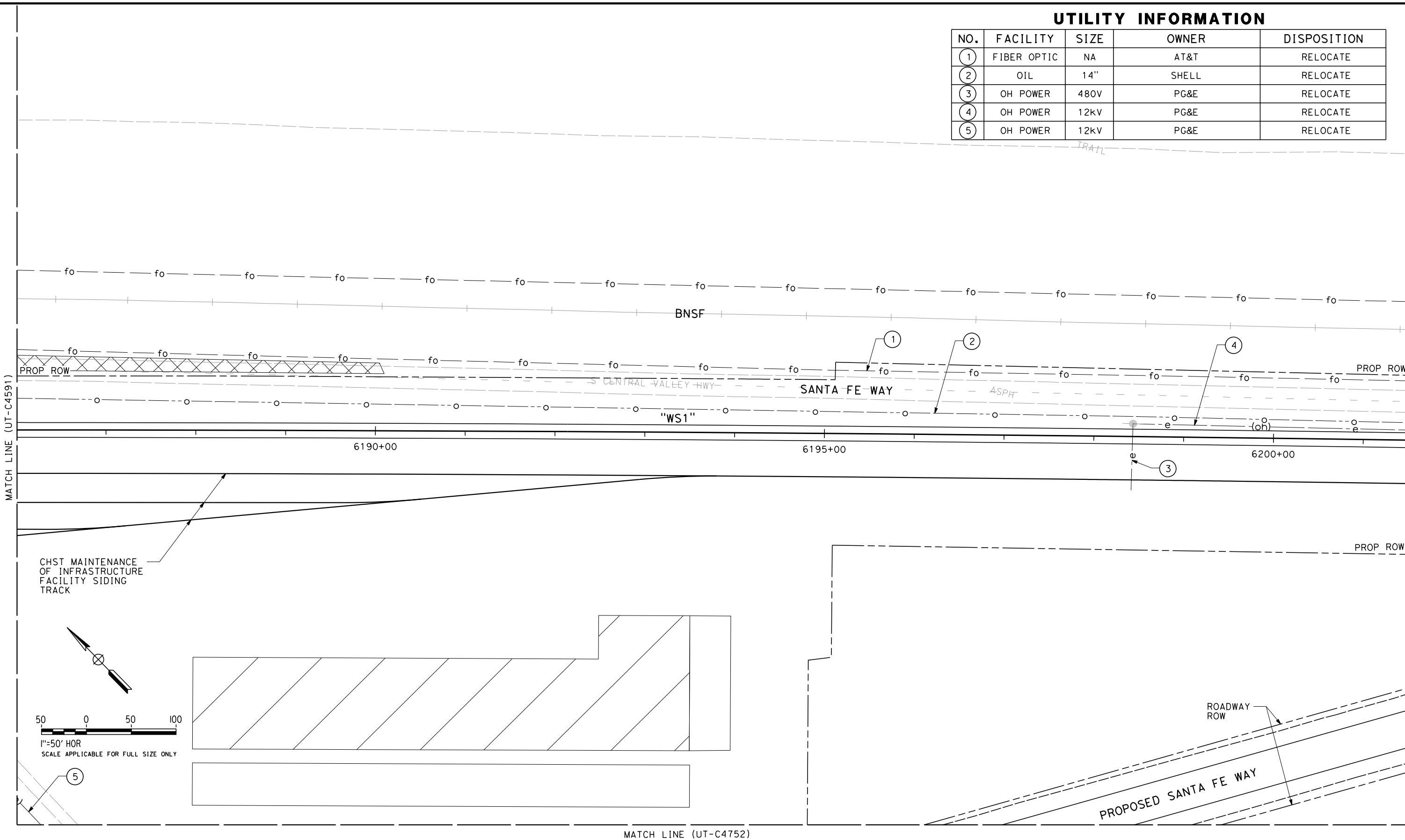
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4591     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>100 OF 163     |

REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015



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ORT52801



| UTILITY INFORMATION |             |      |       |             |
|---------------------|-------------|------|-------|-------------|
| NO.                 | FACILITY    | SIZE | OWNER | DISPOSITION |
| ①                   | FIBER OPTIC | NA   | AT&T  | RELOCATE    |
| ②                   | OIL         | 14"  | SHELL | RELOCATE    |
| ③                   | OH POWER    | 480V | PG&E  | RELOCATE    |
| ④                   | OH POWER    | 12kV | PG&E  | RELOCATE    |
| ⑤                   | OH POWER    | 12kV | PG&E  | RELOCATE    |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6186+00 TO 6201+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4592     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>101 OF 163     |

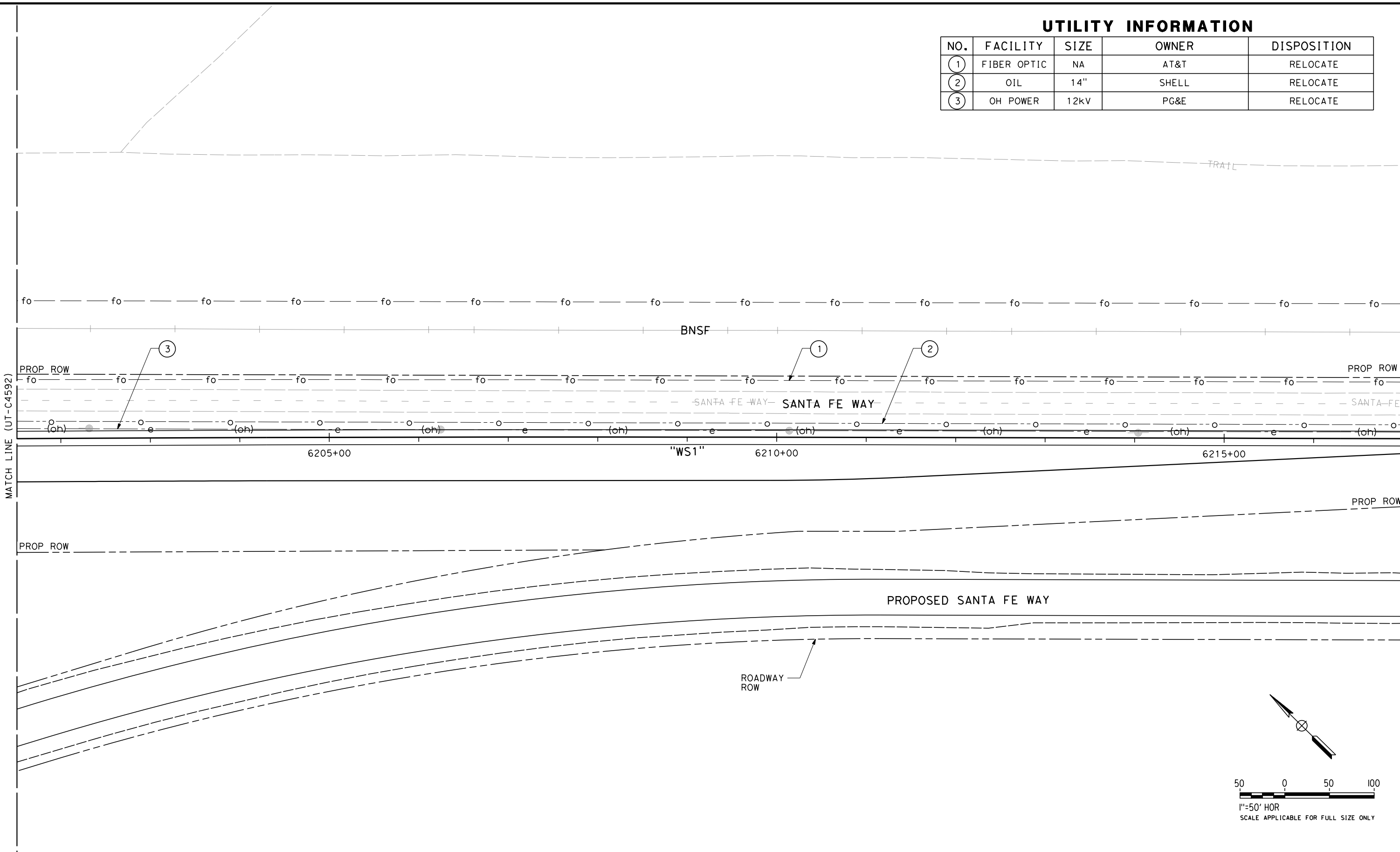
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UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER | DISPOSITION |
|-----|-------------|------|-------|-------------|
| ①   | FIBER OPTIC | NA   | AT&T  | RELOCATE    |
| ②   | OIL         | 14"  | SHELL | RELOCATE    |
| ③   | OH POWER    | 12kV | PG&E  | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1

UTILITIES

COMPOSITE UTILITY PLAN

STA 6201+50 TO 6217+00

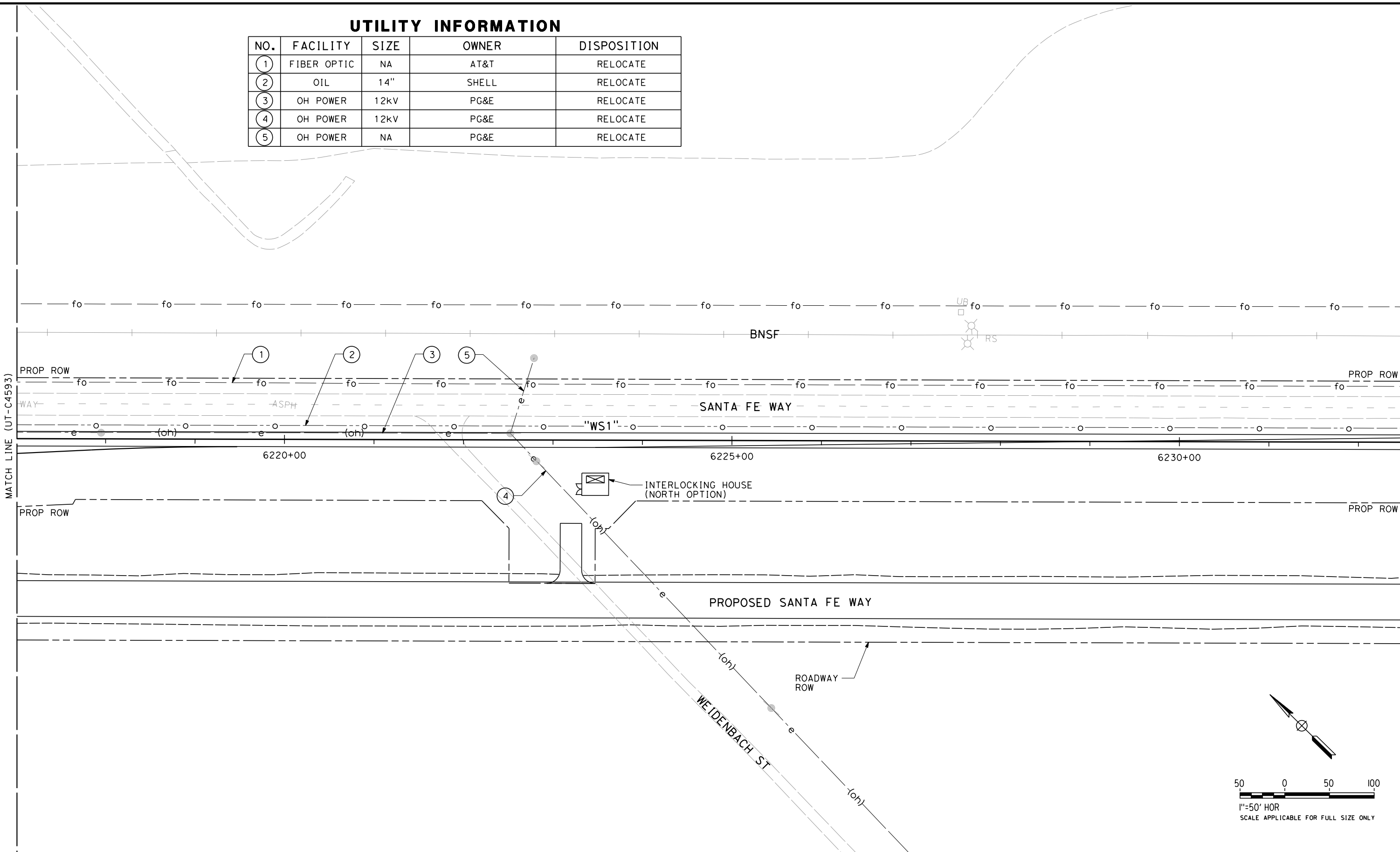
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| SHEET NO.<br>102 OF 163     |

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ORT52801

UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER | DISPOSITION |
|-----|-------------|------|-------|-------------|
| ①   | FIBER OPTIC | NA   | AT&T  | RELOCATE    |
| ②   | OIL         | 14"  | SHELL | RELOCATE    |
| ③   | OH POWER    | 12kV | PG&E  | RELOCATE    |
| ④   | OH POWER    | 12kV | PG&E  | RELOCATE    |
| ⑤   | OH POWER    | NA   | PG&E  | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

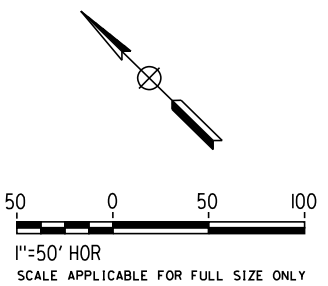
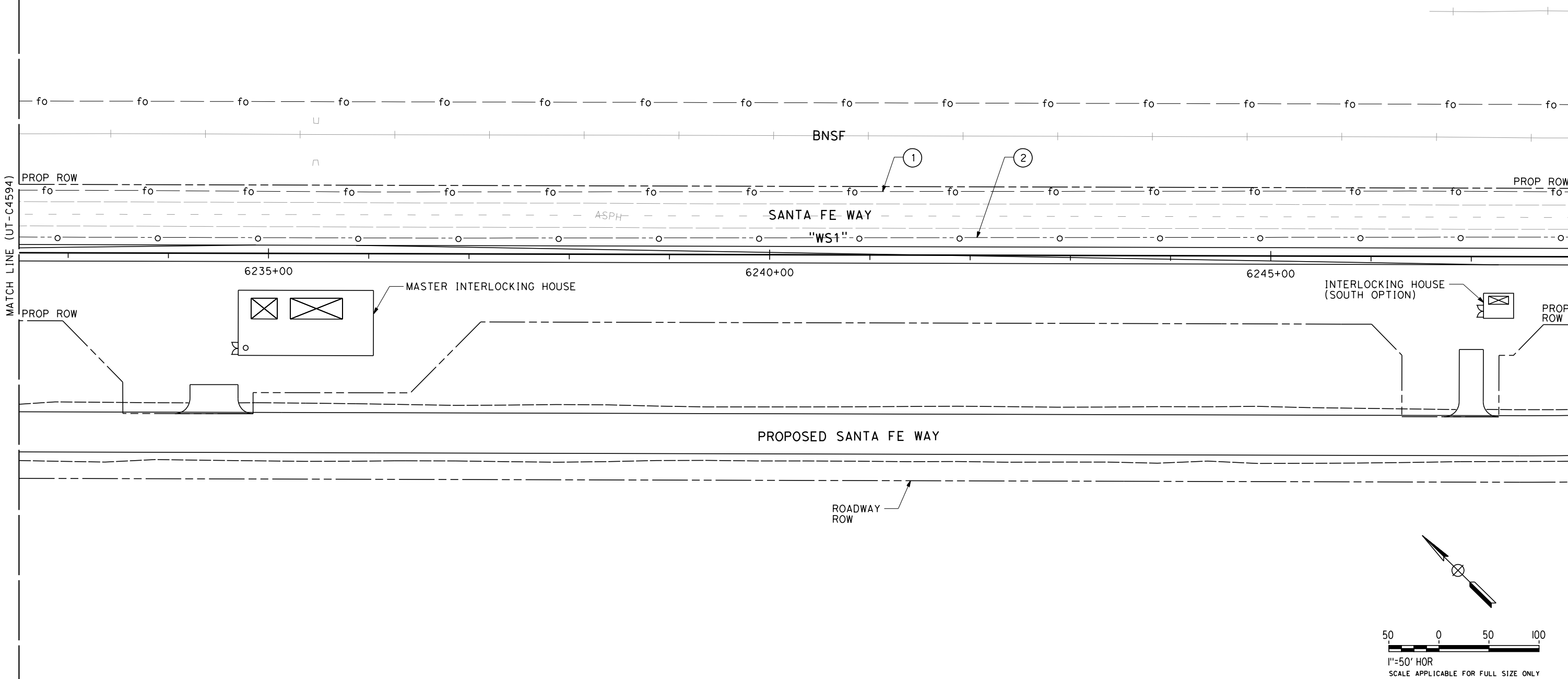
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6217+00 TO 6232+50

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4594     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>103 OF 163     |

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UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER | DISPOSITION |
|-----|-------------|------|-------|-------------|
| ①   | FIBER OPTIC | NA   | AT&T  | RELOCATE    |
| ②   | OIL         | 14"  | SHELL | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1

UTILITIES

COMPOSITE UTILITY PLAN

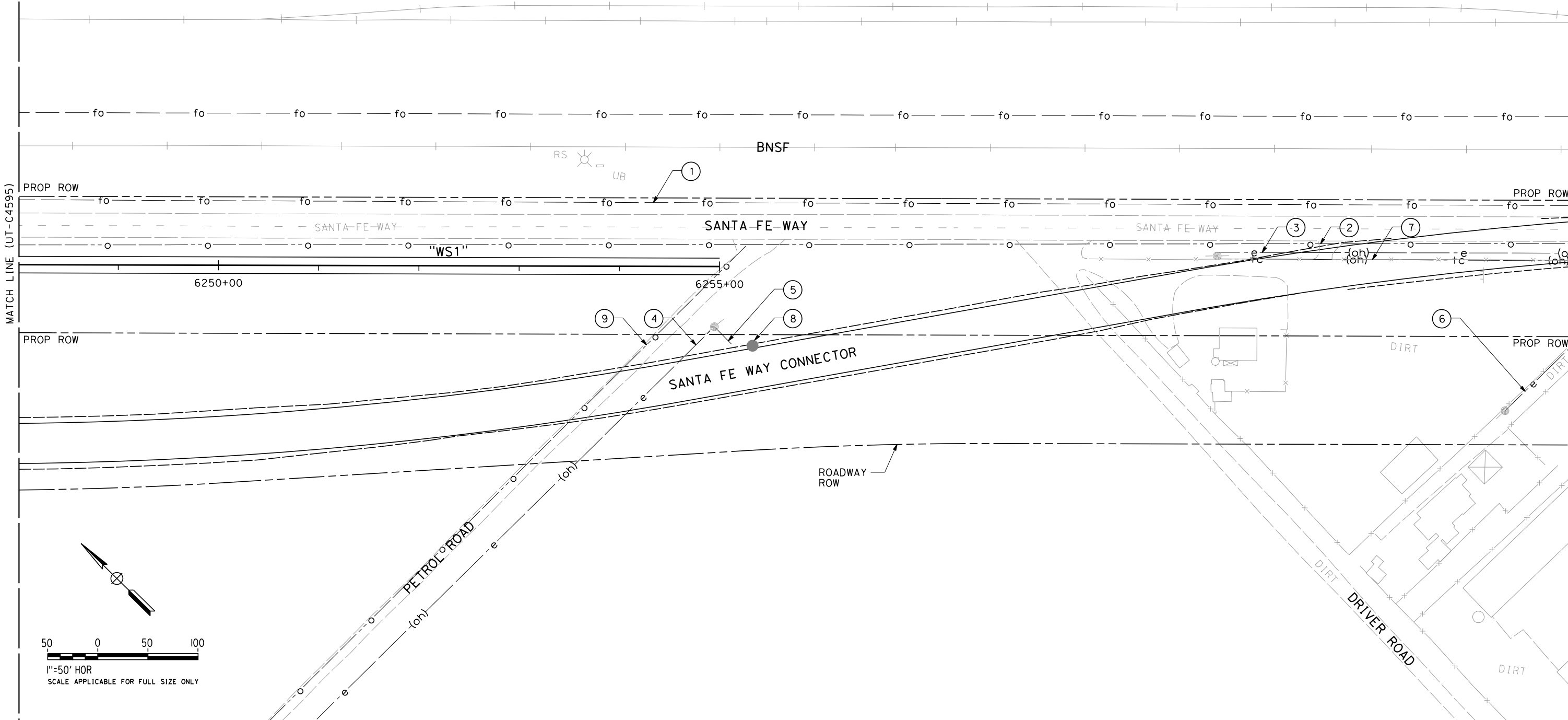
STA 6232+50 TO 6248+00

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|-----------------------------|
| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4595     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>104 OF 163     |

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER   | DISPOSITION |
|-----|-------------|------|---------|-------------|
| 1   | FIBER OPTIC | NA   | AT&T    | RELOCATE    |
| 2   | OIL         | 14"  | SHELL   | RELOCATE    |
| 3   | OH POWER    | 12kV | PG&E    | RELOCATE    |
| 4   | OH POWER    | 12kV | PG&E    | RELOCATE    |
| 5   | OH POWER    | 480V | PG&E    | RELOCATE    |
| 6   | OH POWER    | 12kV | PG&E    | RELOCATE    |
| 7   | OH TELECOM  | NA   | AT&T    | RELOCATE    |
| 8   | GW WELL     | NA   | UNKNOWN | RELOCATE    |
| 9   | OIL (ABN)   | 14"  | SHELL   | REMOVE      |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6248+00 TO 6263+50

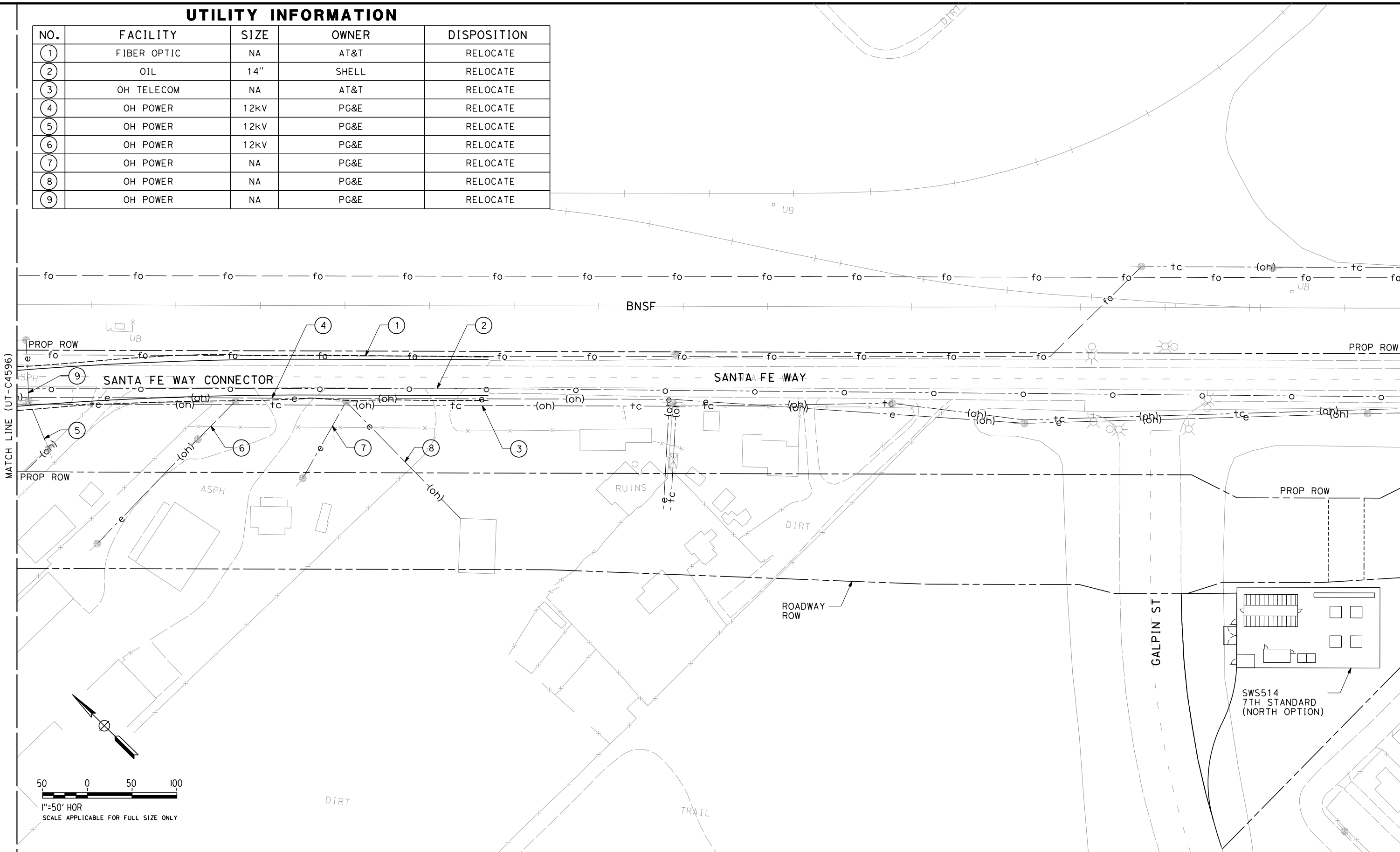
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4596     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>105 OF 163     |

REF No. HSR 14-32 - INITIAL RELEASE - 05/27/2015

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UTILITY INFORMATION

| NO. | FACILITY    | SIZE | OWNER | DISPOSITION |
|-----|-------------|------|-------|-------------|
| ①   | FIBER OPTIC | NA   | AT&T  | RELOCATE    |
| ②   | OIL         | 14"  | SHELL | RELOCATE    |
| ③   | OH TELECOM  | NA   | AT&T  | RELOCATE    |
| ④   | OH POWER    | 12kV | PG&E  | RELOCATE    |
| ⑤   | OH POWER    | 12kV | PG&E  | RELOCATE    |
| ⑥   | OH POWER    | 12kV | PG&E  | RELOCATE    |
| ⑦   | OH POWER    | NA   | PG&E  | RELOCATE    |
| ⑧   | OH POWER    | NA   | PG&E  | RELOCATE    |
| ⑨   | OH POWER    | NA   | PG&E  | RELOCATE    |



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| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6263+50 TO 6279+00

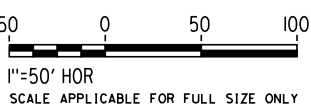
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4597     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>106 OF 163     |

MATCH LINE (UT-C4598)

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015



MATCH LINE (END OF PACKAGE 4)



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|-------------------------|
| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA**  
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
STA 6279+00 TO 6291+00

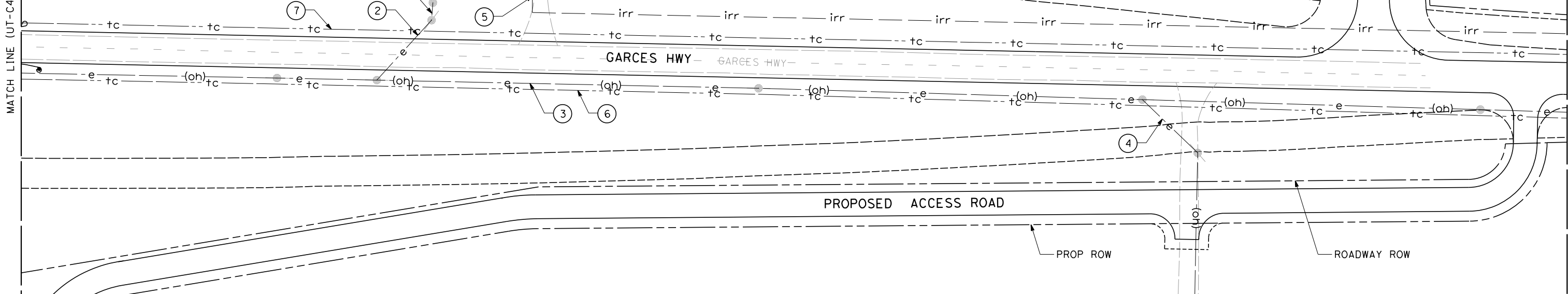
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| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO.  | UT-C4598    |
| SCALE        | AS SHOWN    |
| SHEET NO.    | 107 OF 163  |



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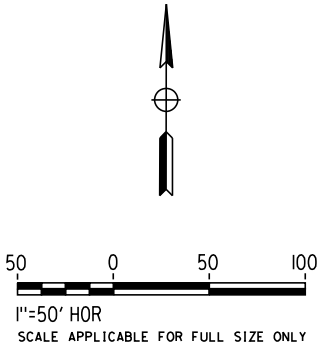
MATCH LINE (UT-C4510)



PROPOSED SCOFIELD AVE

UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION |
|-----|--------------|------|-----------------------------------|-------------|
| ①   | OH POWER     | 480V | PG&E                              | RELOCATE    |
| ②   | OH POWER     | 12kV | PG&E                              | RELOCATE    |
| ③   | OH POWER     | 12kV | PG&E                              | RELOCATE    |
| ④   | OH POWER     | 12kV | PG&E                              | RELOCATE    |
| ⑤   | IRRIGATION   | 24"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑥   | TELECOM      | NA   | AT&T                              | RELOCATE    |
| ⑦   | TELECOM      | NA   | AT&T                              | RELOCATE    |
| ⑧   | FARM TURNOUT | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ⑨   | GW WELL      | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



PROPOSED ACCESS ROAD

PROP ROW

ROADWAY ROW

MATCH LINE (UT-C4701)

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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NOT FOR  
CONSTRUCTION



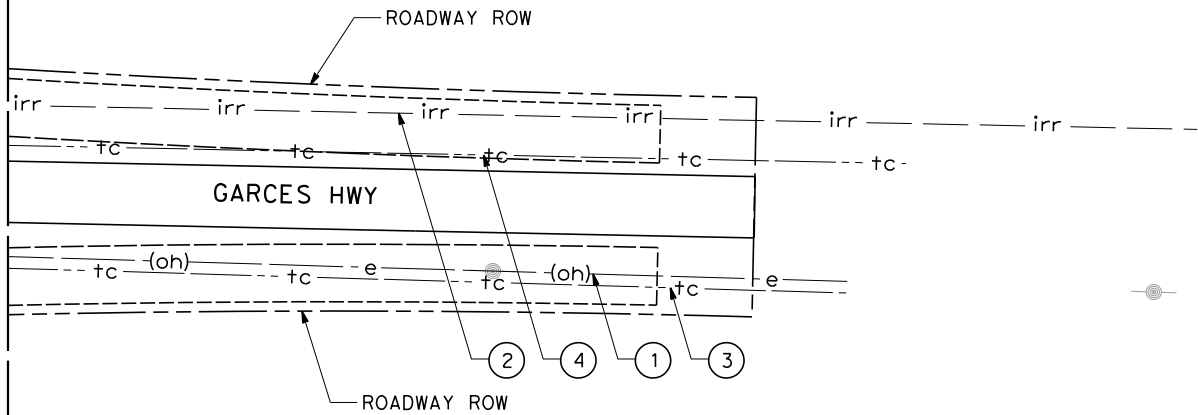
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
GARCES HIGHWAY

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4700     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>108 OF 163     |

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MATCH LINE (UT-C4700)



UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| ①   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ②   | IRRIGATION | 24"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ③   | TELECOM    | NA   | AT&T                              | RELOCATE    |
| ④   | TELECOM    | NA   | AT&T                              | RELOCATE    |

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| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD

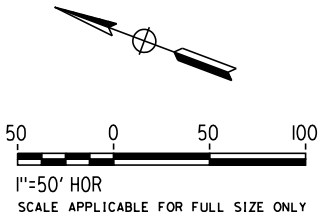
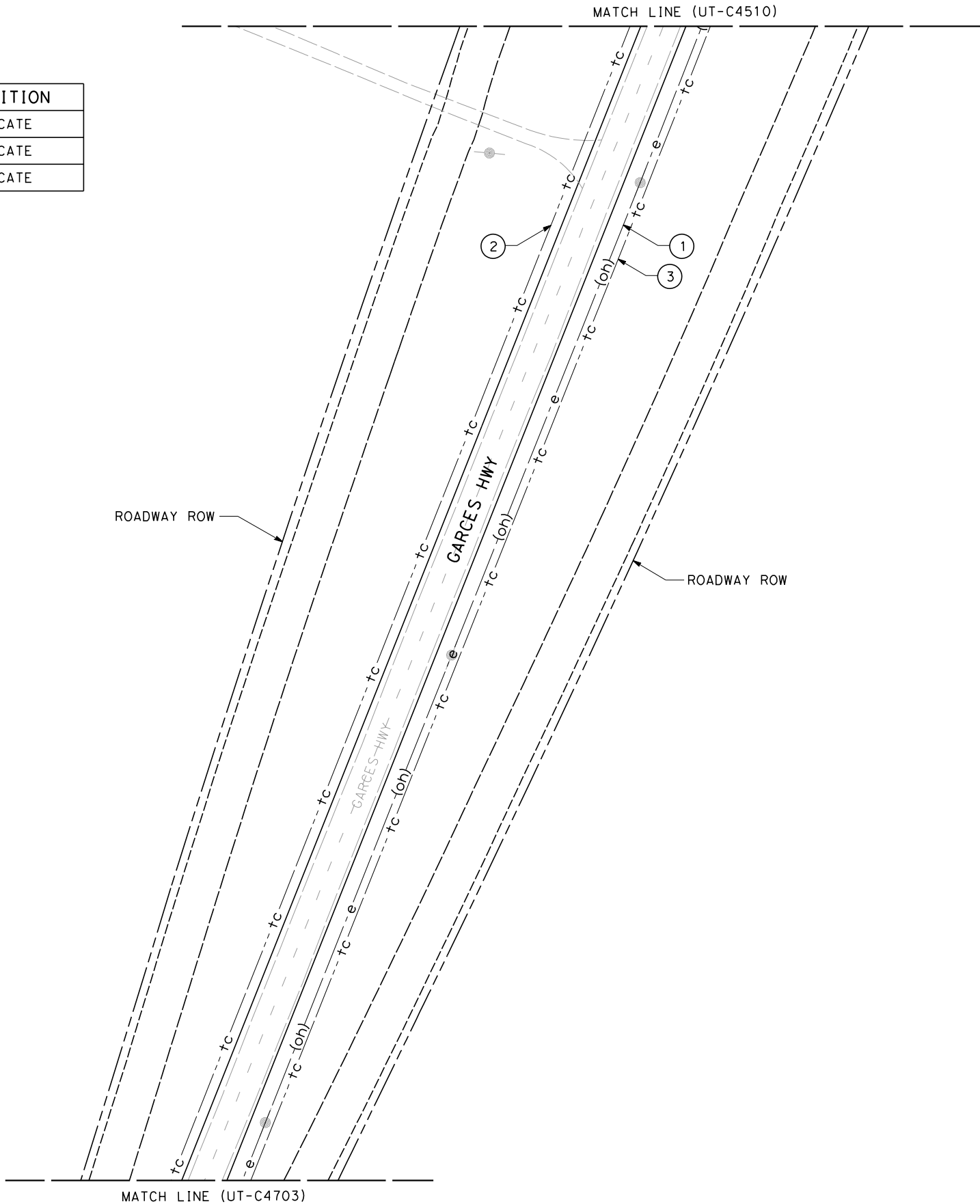
PACKAGE 4 - ALIGNMENT A1

UTILITIES  
COMPOSITE UTILITY PLAN  
GARCES HIGHWAY

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4701     |
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| UTILITY INFORMATION |          |      |       |             |
|---------------------|----------|------|-------|-------------|
| NO.                 | FACILITY | SIZE | OWNER | DISPOSITION |
| 1                   | OH POWER | 12kV | PG&E  | RELOCATE    |
| 2                   | TELECOM  | NA   | AT&T  | RELOCATE    |
| 3                   | TELECOM  | NA   | AT&T  | RELOCATE    |



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| DESIGNED BY<br>T. RAMIL |
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| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1

UTILITIES

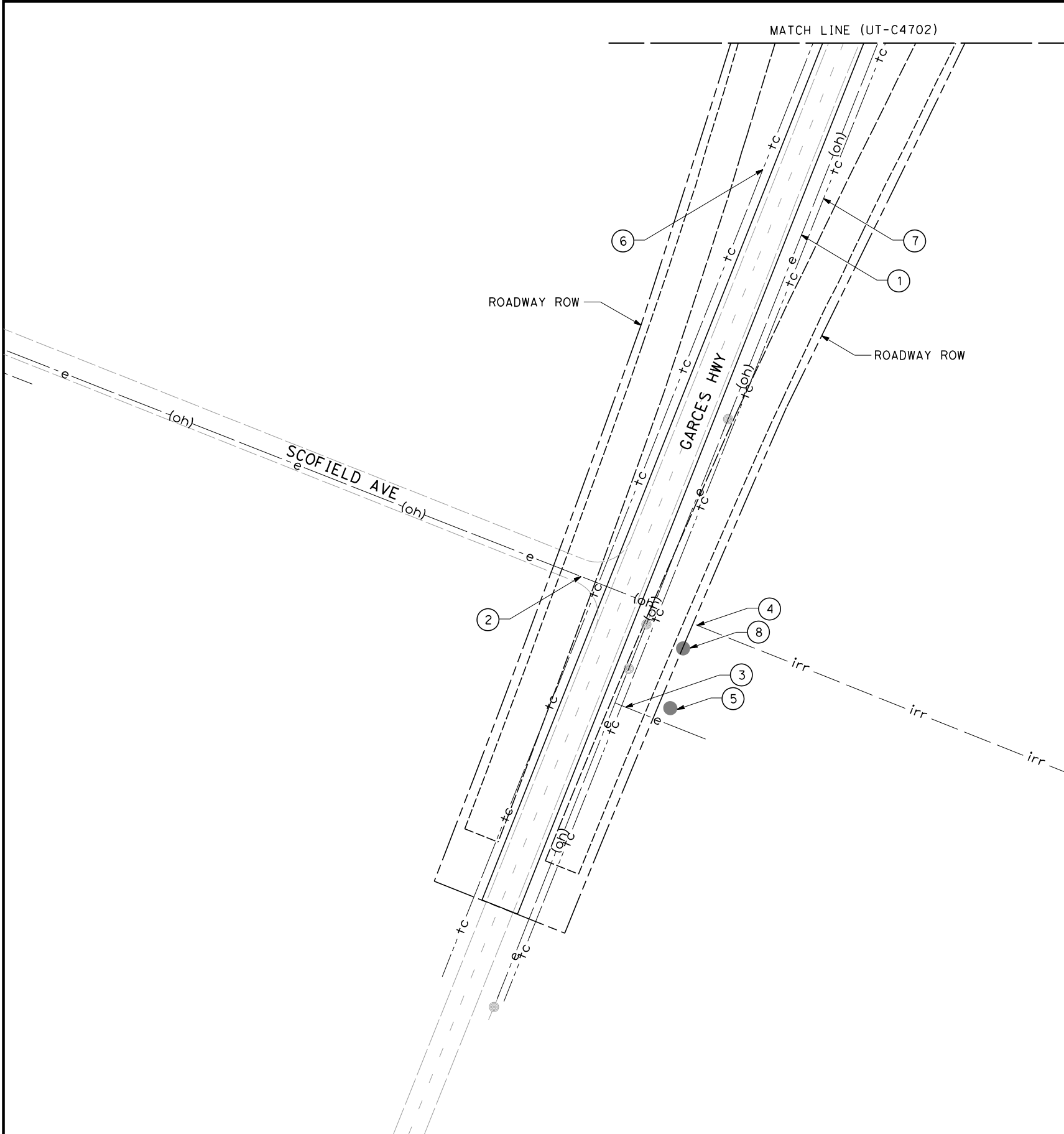
COMPOSITE UTILITY PLAN

GARCES HIGHWAY

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4702     |
| SCALE<br>AS SHOWN           |
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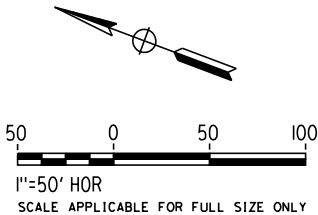
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UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION      |
|-----|--------------|------|-----------------------------------|------------------|
| ①   | OH POWER     | 12kV | PG&E                              | RELOCATE         |
| ②   | OH POWER     | 12kV | PG&E                              | RELOCATE         |
| ③   | OH POWER     | 480V | PG&E                              | RELOCATE         |
| ④   | IRRIGATION   | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE         |
| ⑤   | FARM TURNOUT | NA   | SEMITROPIC WATER STORAGE DISTRICT | PROTECT-IN-PLACE |
| ⑥   | TELECOM      | NA   | AT&T                              | RELOCATE         |
| ⑦   | TELECOM      | NA   | AT&T                              | RELOCATE         |
| ⑧   | GW WELL      | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE         |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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PRELIMINARY  
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
GARCES HIGHWAY

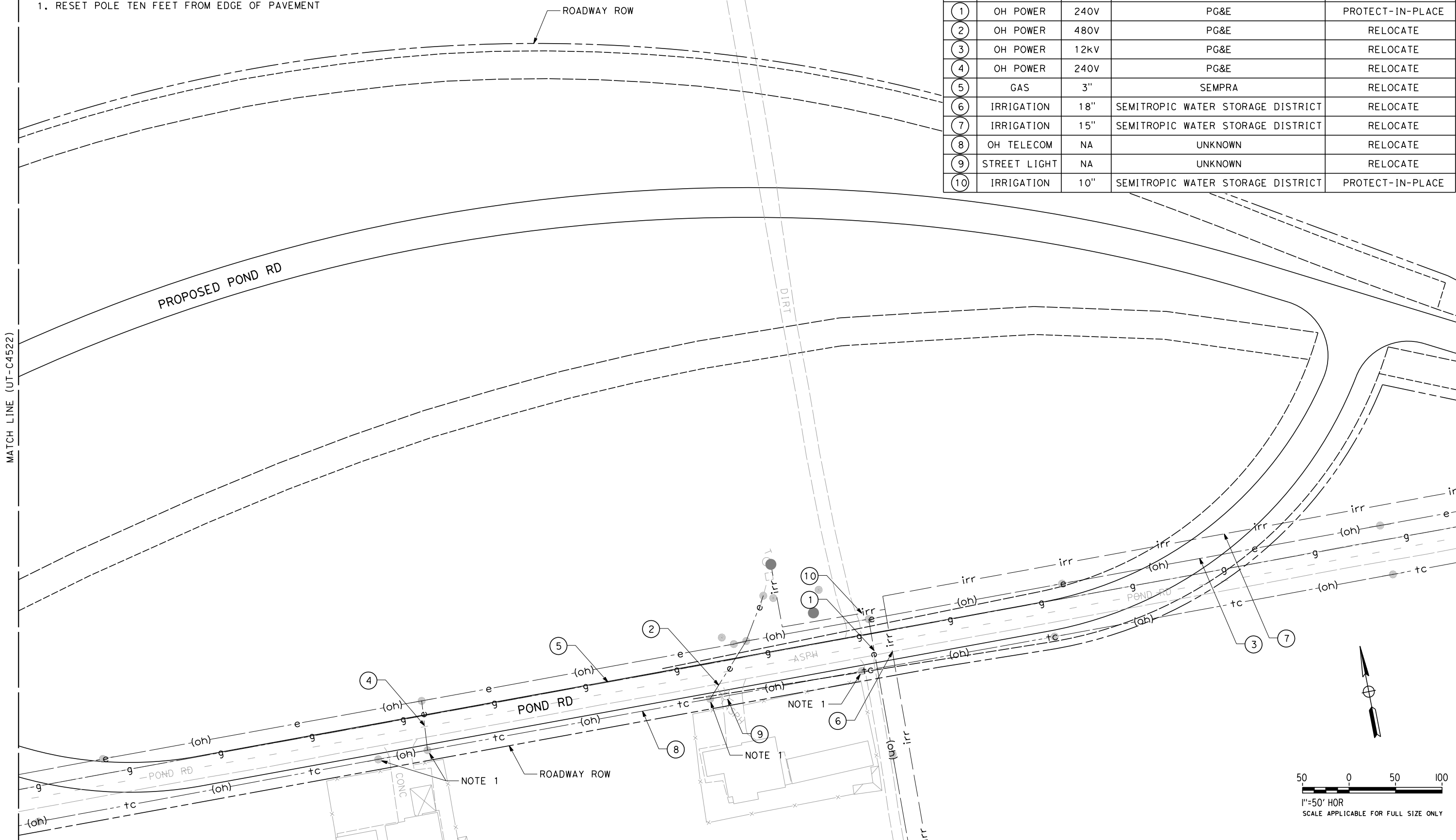
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| DRAWING NO.<br>UT-C4703     |
| SCALE<br>AS SHOWN           |
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NOTES:  
1. RESET POLE TEN FEET FROM EDGE OF PAVEMENT

UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION      |
|-----|--------------|------|-----------------------------------|------------------|
| 1   | OH POWER     | 240V | PG&E                              | PROTECT-IN-PLACE |
| 2   | OH POWER     | 480V | PG&E                              | RELOCATE         |
| 3   | OH POWER     | 12kV | PG&E                              | RELOCATE         |
| 4   | OH POWER     | 240V | PG&E                              | RELOCATE         |
| 5   | GAS          | 3"   | SEMPRA                            | RELOCATE         |
| 6   | IRRIGATION   | 18"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE         |
| 7   | IRRIGATION   | 15"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE         |
| 8   | OH TELECOM   | NA   | UNKNOWN                           | RELOCATE         |
| 9   | STREET LIGHT | NA   | UNKNOWN                           | RELOCATE         |
| 10  | IRRIGATION   | 10"  | SEMITROPIC WATER STORAGE DISTRICT | PROTECT-IN-PLACE |



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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

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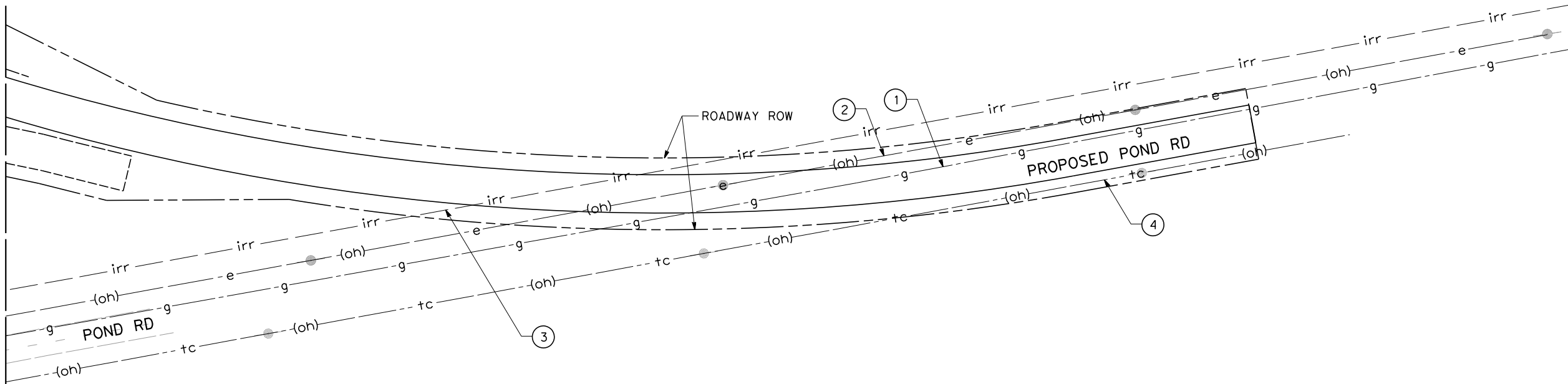
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
POND ROAD

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4704  
SCALE  
AS SHOWN  
SHEET NO.  
112 OF 163

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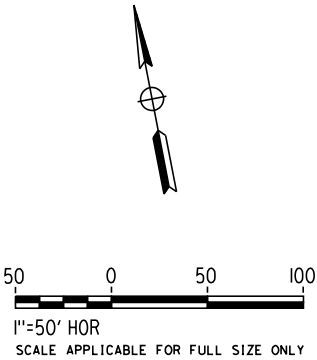
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MATCH LINE (UT-C4704)



UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION      |
|-----|------------|------|-----------------------------------|------------------|
| ①   | GAS        | 3"   | SEMPRA                            | RELOCATE         |
| ②   | OH POWER   | 12kV | PG&E                              | RELOCATE         |
| ③   | IRRIGATION | 15"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE         |
| ④   | OH TELECOM | NA   | UNKNOWN                           | PROTECT-IN-PLACE |



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| DESIGNED BY<br>T. RAMIL |
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| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
POND ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4705     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>113 OF 163     |

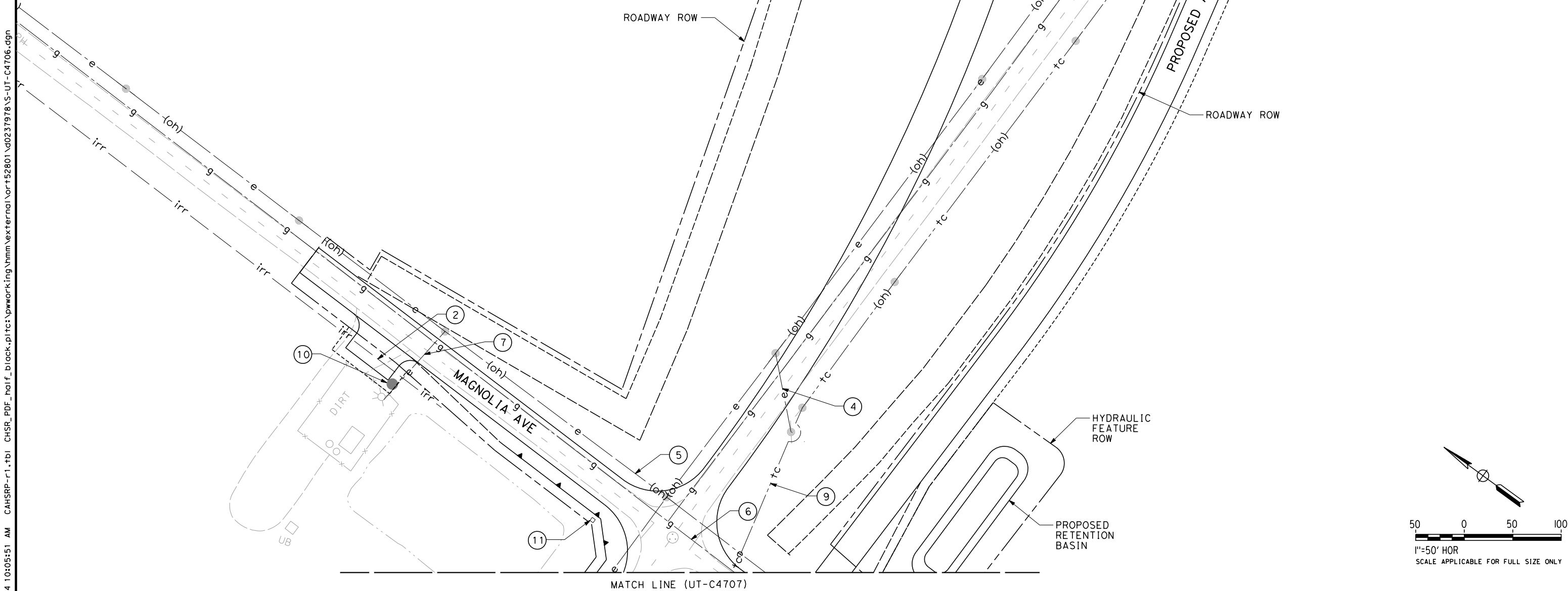


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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| 1   | GAS        | 3"   | SEMPRA                            | RELOCATE    |
| 2   | IRRIGATION | 12"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| 3   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| 4   | OH POWER   | 240V | PG&E                              | RELOCATE    |
| 5   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| 6   | GAS        | 3"   | SEMPRA                            | RELOCATE    |
| 7   | OH POWER   | NA   | PG&E                              | RELOCATE    |
| 8   | OH TELECOM | NA   | UNKNOWN                           | RELOCATE    |
| 9   | TELECOM    | NA   | UNKNOWN                           | RELOCATE    |
| 10  | GW WELL    | NA   | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| 11  | TELECOM    | NA   | UNKNOWN                           | RELOCATE    |



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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

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PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
POND ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4706     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>114 OF 163     |

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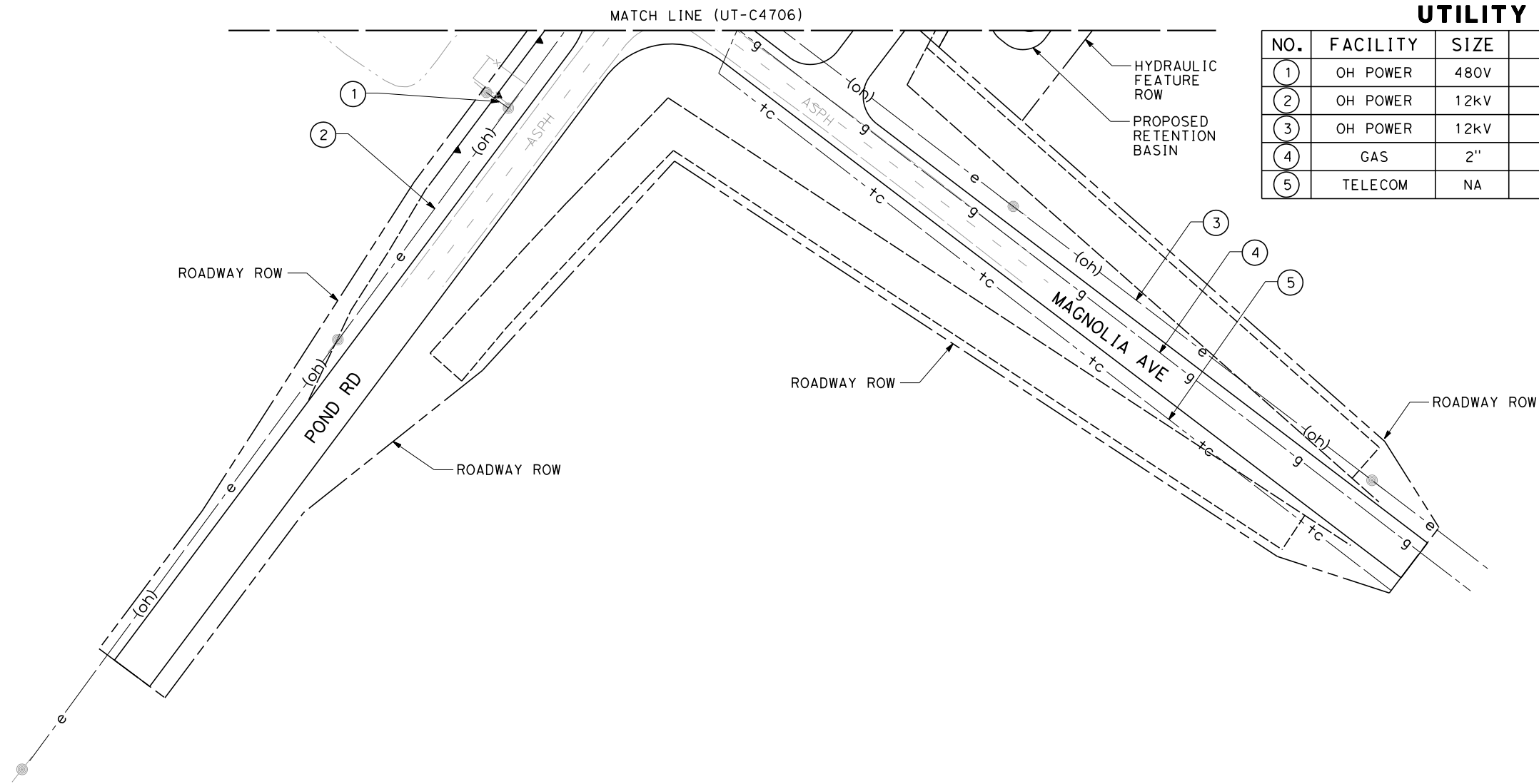
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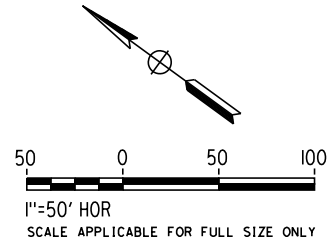


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
POND ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
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| SCALE<br>AS SHOWN           |
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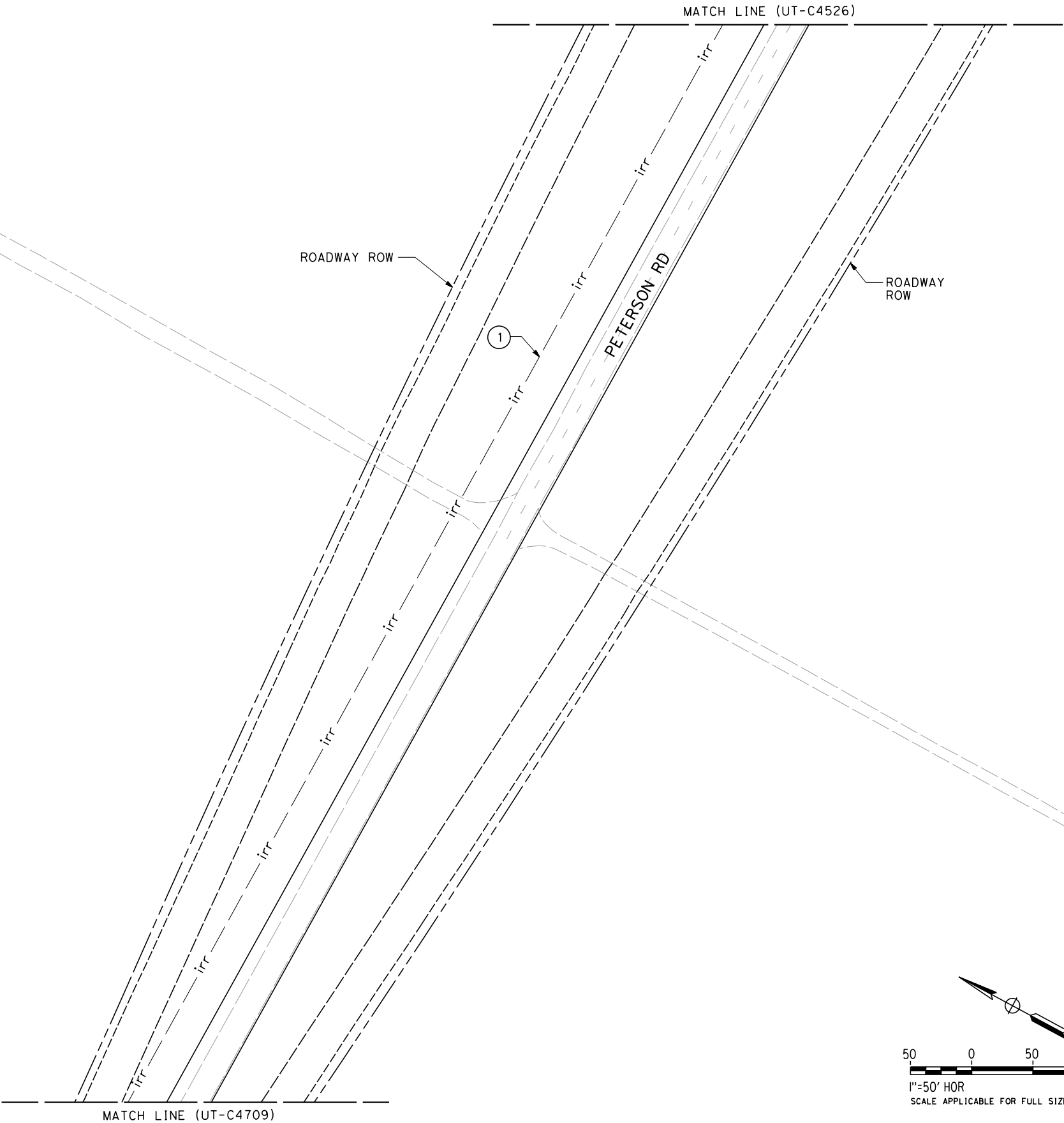
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| NO.                 | FACILITY | SIZE | OWNER   | DISPOSITION |
| ①                   | OH POWER | 480V | PG&E    | RELOCATE    |
| ②                   | OH POWER | 12kV | PG&E    | RELOCATE    |
| ③                   | OH POWER | 12kV | PG&E    | RELOCATE    |
| ④                   | GAS      | 2"   | SEMPRA  | RELOCATE    |
| ⑤                   | TELECOM  | NA   | UNKNOWN | RELOCATE    |



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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| ①   | IRRIGATION | 30"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION

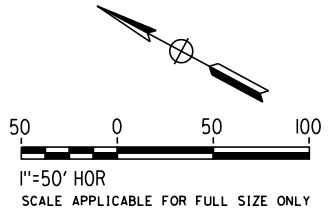
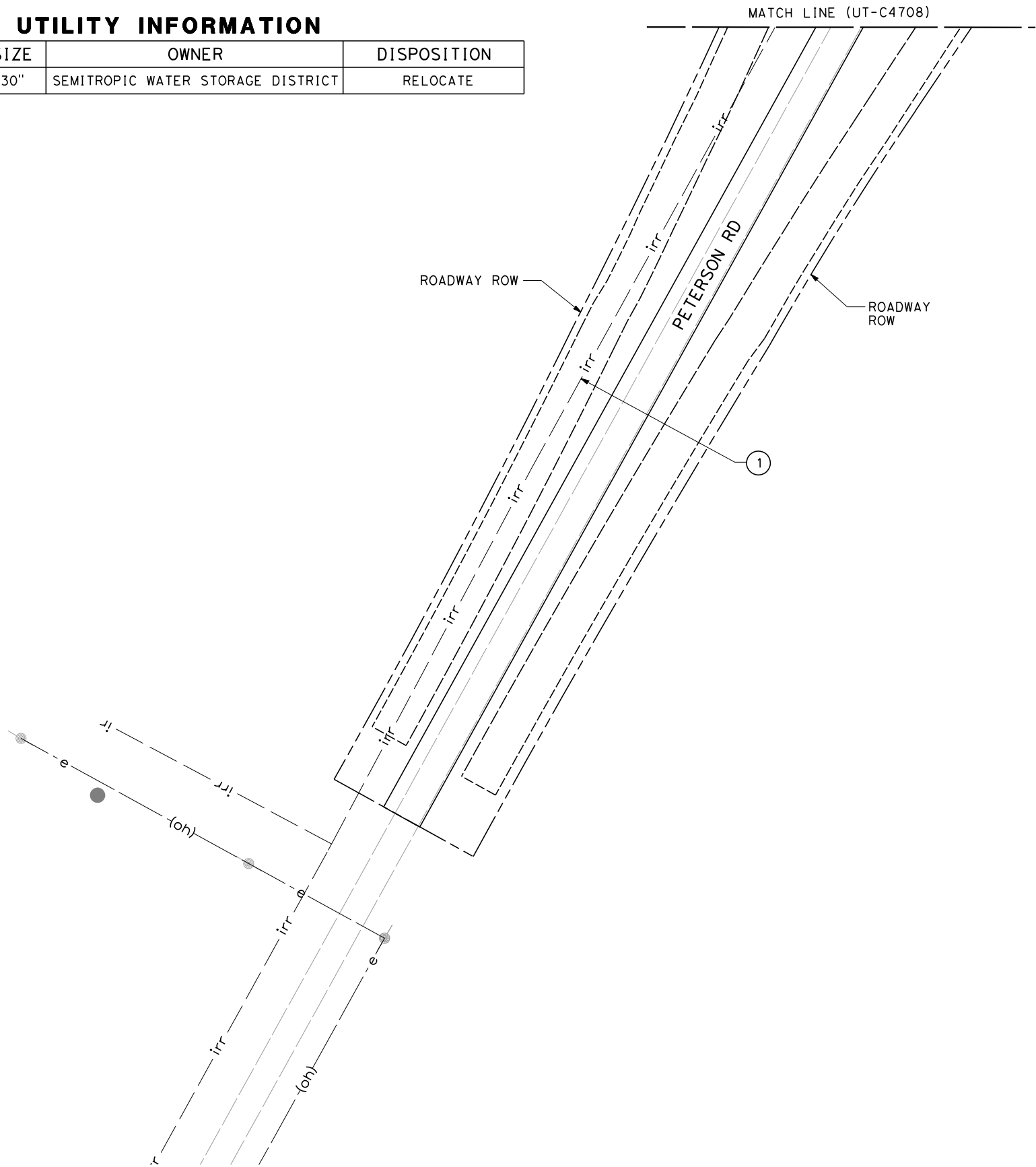


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
PETERSON ROAD

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4708     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>116 OF 163     |

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| UTILITY INFORMATION |            |      |                                   |             |
|---------------------|------------|------|-----------------------------------|-------------|
| NO.                 | FACILITY   | SIZE | OWNER                             | DISPOSITION |
| 1                   | IRRIGATION | 30"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION

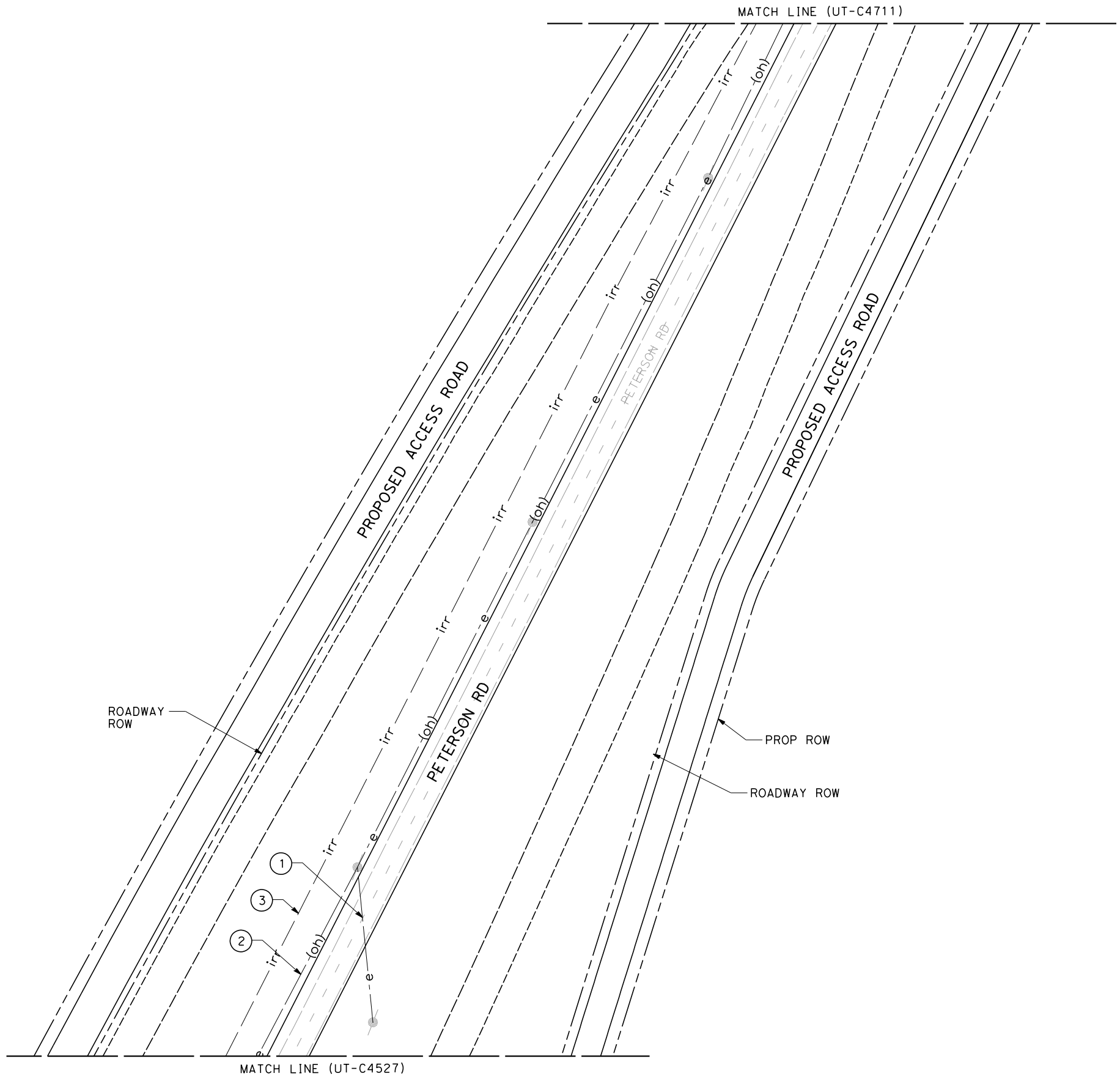


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT A1  
UTILITIES  
COMPOSITE UTILITY PLAN  
PETERSON ROAD

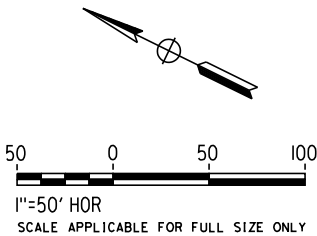
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4709     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>117 OF 163     |

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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| ①   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ②   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ③   | IRRIGATION | 30"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD

PACKAGE 4 - ALIGNMENT A1

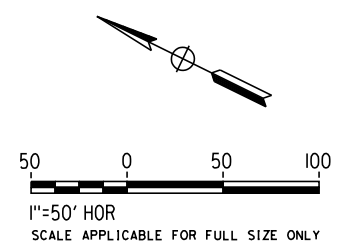
UTILITIES

COMPOSITE UTILITY PLAN




PETERSON ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4710     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>118 OF 163     |

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| ①   | IRRIGATION | 30"  | SEMITROPIC WATER STORAGE DISTRICT | RELOCATE    |
| ②   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ③   | POWER      | NA   | PG&E                              | RELOCATE    |



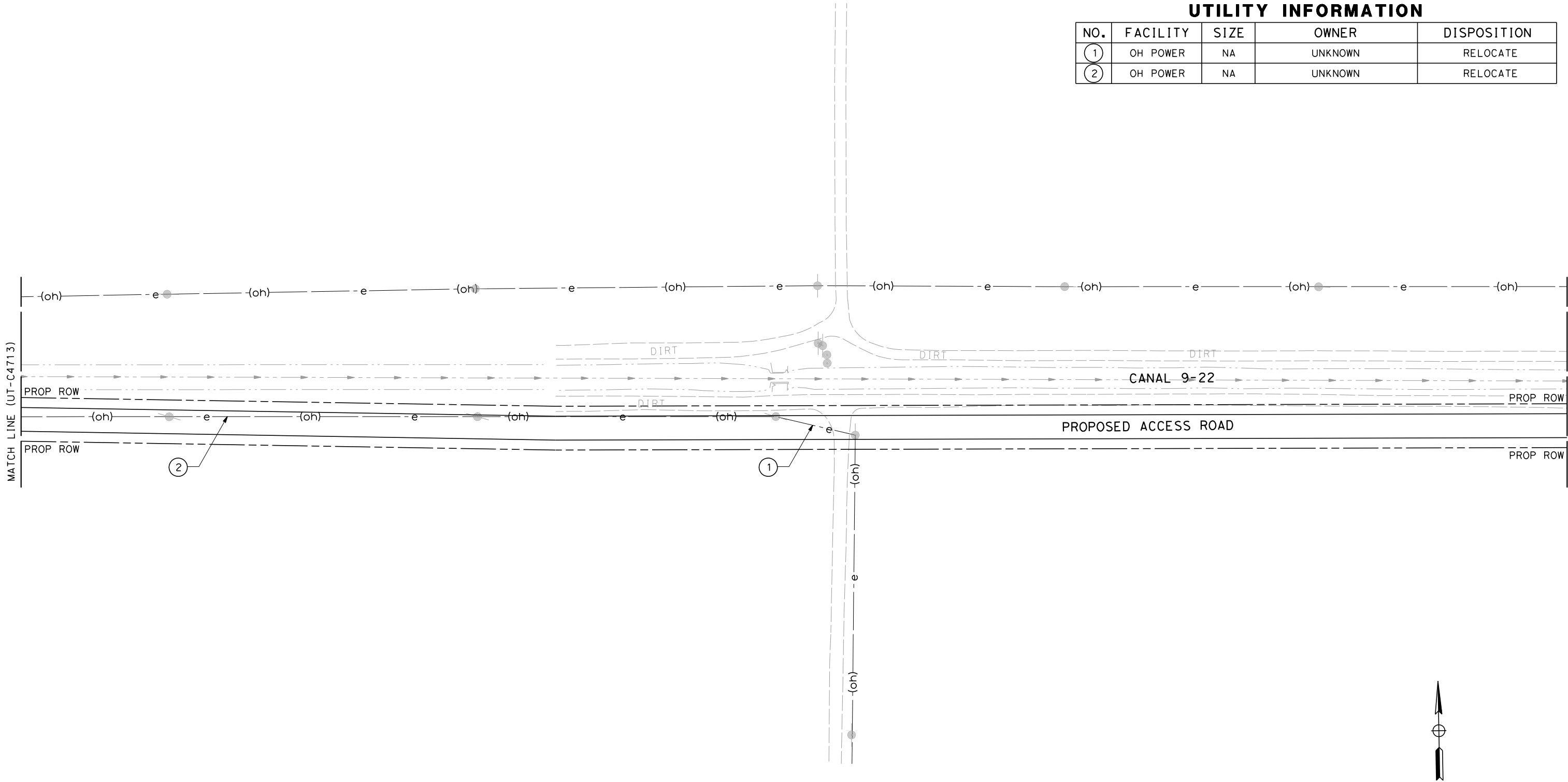
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|     |      |    |     |     |             |                         | DESIGNED BY<br>T. RAMIL | <b>PROPOSED<br/>PRELIMINARY<br/>DESIGN</b><br><br><b>NOT FOR<br/>CONSTRUCTION</b> | <br> | <br><b>CALIFORNIA</b><br>HIGH-SPEED RAIL AUTHORITY | <b>CALIFORNIA HIGH-SPEED TRAIN PROJECT<br/>FRESNO TO BAKERSFIELD</b><br>PACKAGE 4 - ALIGNMENT A1<br>UTILITIES<br>COMPOSITE UTILITY PLAN<br>PETERSON ROAD | CONTRACT NO.<br>HSR 06-0003 |
|     |      |    |     |     |             | DRAWN BY<br>V. ORTEGA   | DRAWING NO.<br>UT-C4711 |   |  |   |  |                             |
|     |      |    |     |     |             | CHECKED BY<br>T. GRAU   | SCALE<br>AS SHOWN       |   |  |   |  |                             |
|     |      |    |     |     |             | IN CHARGE<br>S. BURGESS | SHEET NO.<br>119 OF 163 |   |  |   |  |                             |
| REV | DATE | BY | CHK | APP | DESCRIPTION | DATE<br>09/30/14        |                         |   |  |   |  |                             |



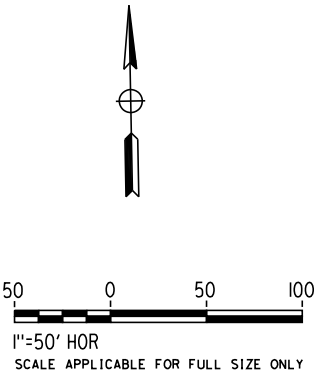
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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER   | DISPOSITION |
|-----|----------|------|---------|-------------|
| ①   | OH POWER | NA   | UNKNOWN | RELOCATE    |
| ②   | OH POWER | NA   | UNKNOWN | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
NORTH PALM AVENUE ACCESS ROAD

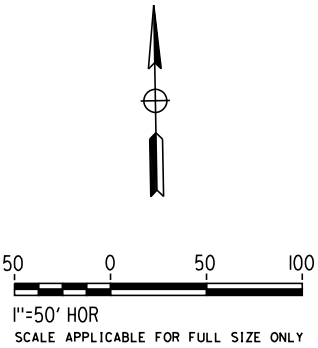
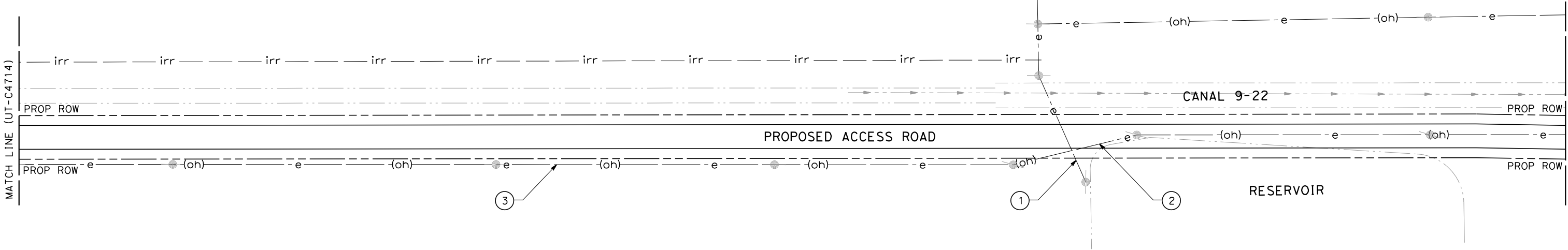
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4712     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>120 OF 163     |

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER   | DISPOSITION      |
|-----|----------|------|---------|------------------|
| ①   | OH POWER | 12kV | PG&E    | RELOCATE         |
| ②   | OH POWER | NA   | UNKNOWN | RELOCATE         |
| ③   | OH POWER | NA   | UNKNOWN | PROTECT-IN-PLACE |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
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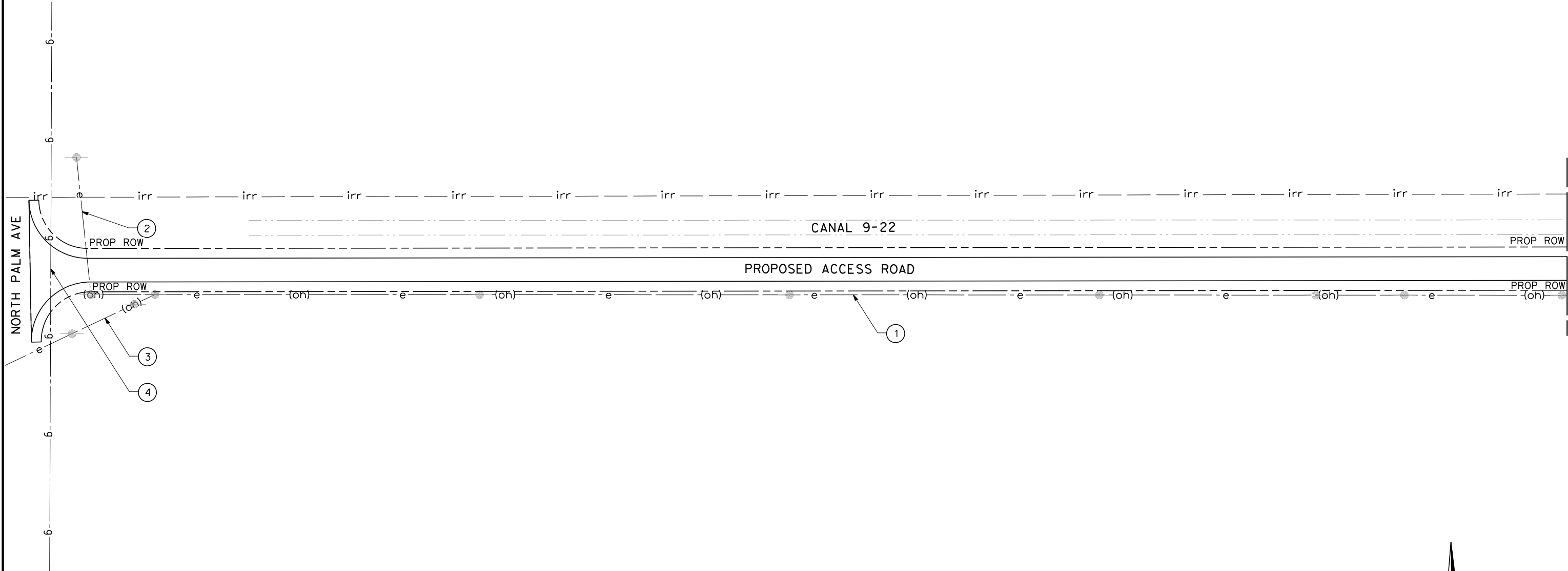
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
NORTH PALM AVENUE ACCESS ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4713     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>121 OF 163     |

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

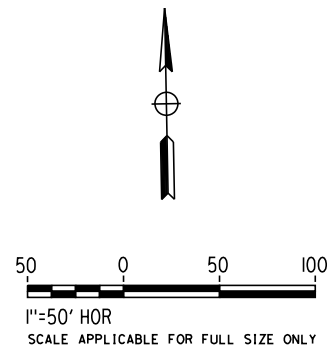
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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER   | DISPOSITION      |
|-----|----------|------|---------|------------------|
| ①   | OH POWER | NA   | UNKNOWN | PROTECT IN PLACE |
| ②   | OH POWER | NA   | UNKNOWN | RELOCATE         |
| ③   | OH POWER | NA   | UNKNOWN | PROTECT IN PLACE |
| ④   | GAS      | NA   | SEMPRA  | PROTECT IN PLACE |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1

UTILITIES

COMPOSITE UTILITY PLAN

NORTH PALM AVENUE ACCESS ROAD

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4714     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>122 OF 163     |

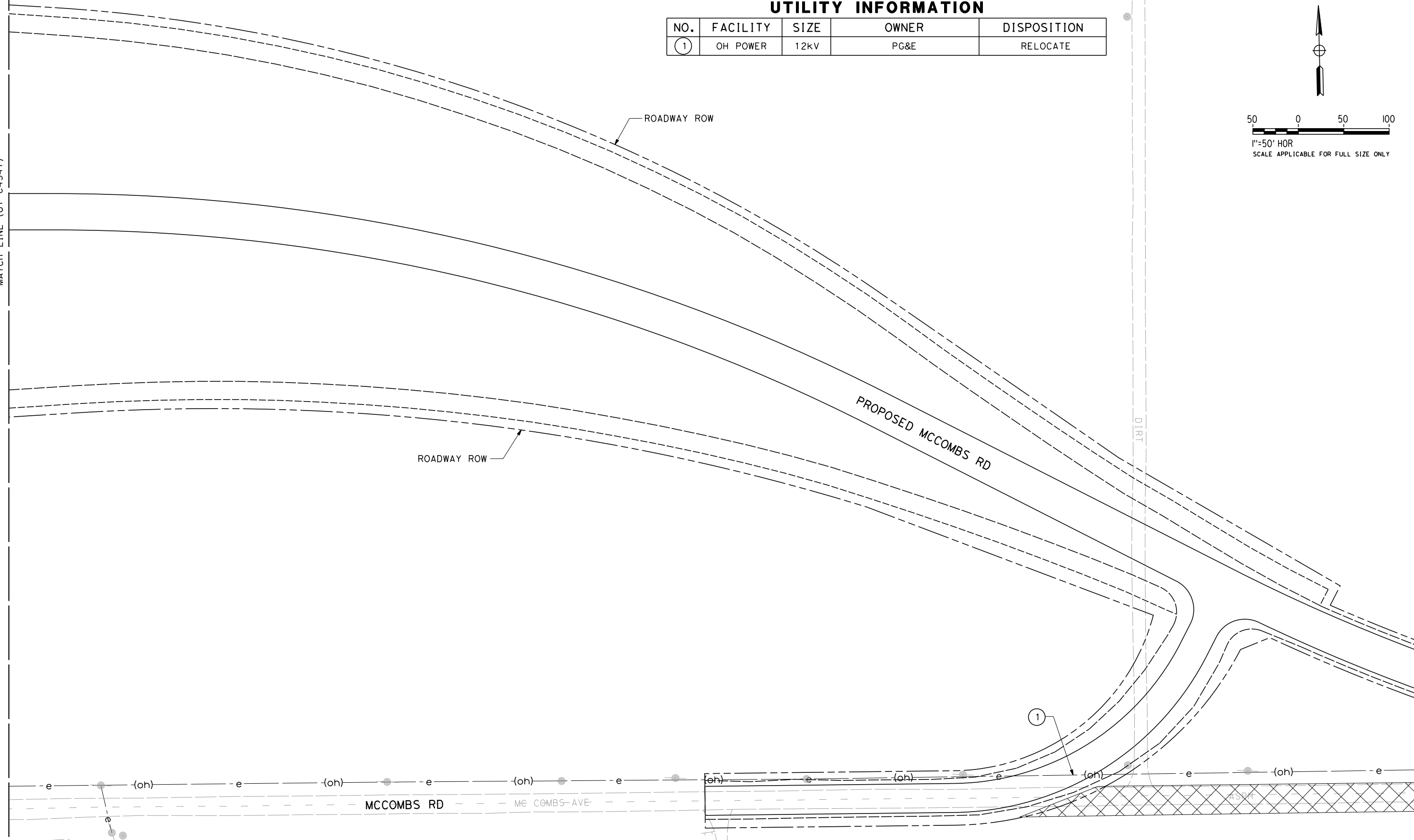
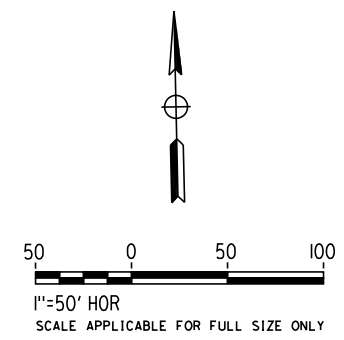
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MATCH LINE (UT-C4547)

| UTILITY INFORMATION |          |      |       |             |
|---------------------|----------|------|-------|-------------|
| NO.                 | FACILITY | SIZE | OWNER | DISPOSITION |
| 1                   | OH POWER | 12kV | PG&E  | RELOCATE    |



MATCH LINE (UT-C4716)

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1

UTILITIES

COMPOSITE UTILITY PLAN

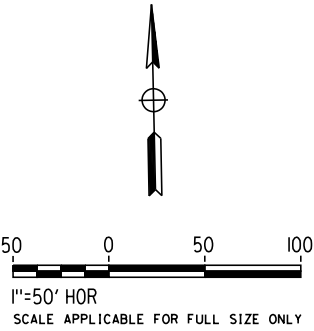
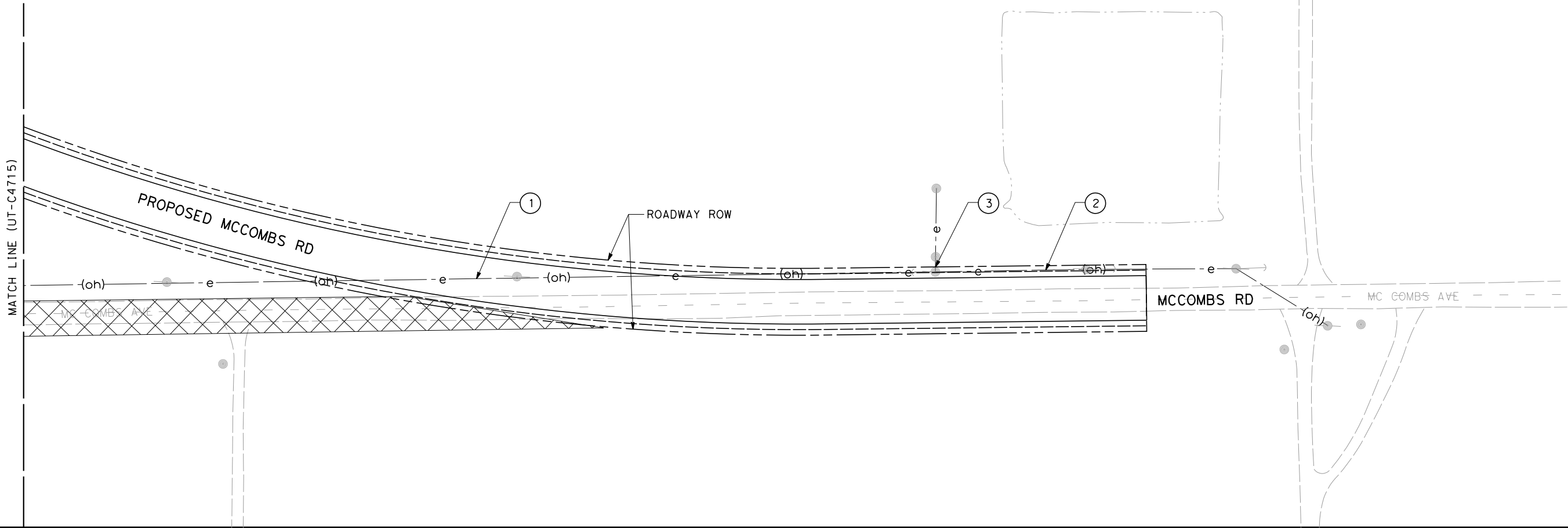
MCCOMBS ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4715     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>123 OF 163     |

UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| ①   | OH POWER | 12kV | PG&E  | RELOCATE    |
| ②   | OH POWER | 480V | PG&E  | RELOCATE    |
| ③   | OH POWER | NA   | PG&E  | RELOCATE    |

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
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CONSTRUCTION



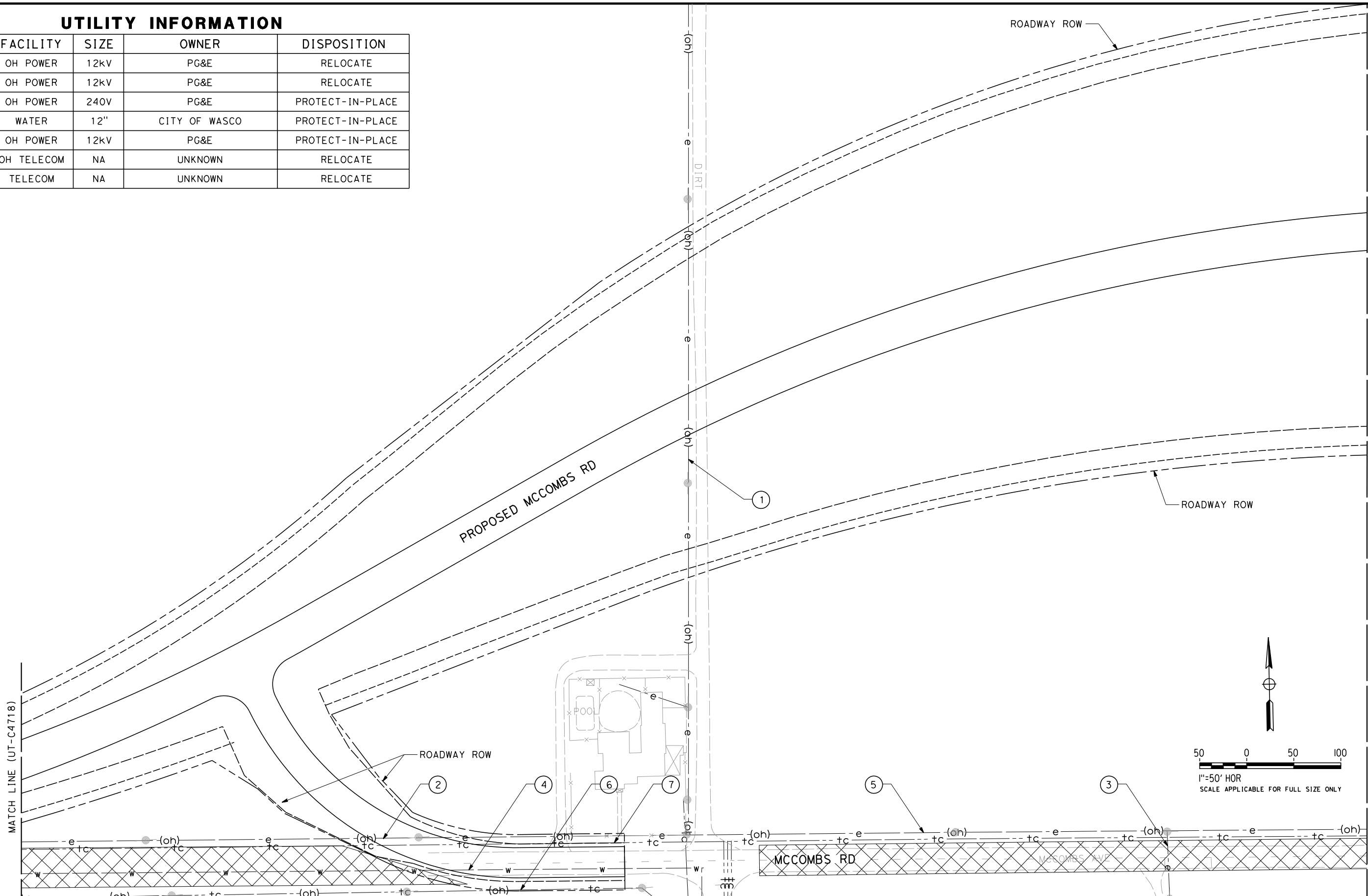
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
MCCOMBS ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4716     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>124 OF 163     |

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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER         | DISPOSITION      |
|-----|------------|------|---------------|------------------|
| 1   | OH POWER   | 12kV | PG&E          | RELOCATE         |
| 2   | OH POWER   | 12kV | PG&E          | RELOCATE         |
| 3   | OH POWER   | 240V | PG&E          | PROTECT-IN-PLACE |
| 4   | WATER      | 12"  | CITY OF WASCO | PROTECT-IN-PLACE |
| 5   | OH POWER   | 12kV | PG&E          | PROTECT-IN-PLACE |
| 6   | OH TELECOM | NA   | UNKNOWN       | RELOCATE         |
| 7   | TELECOM    | NA   | UNKNOWN       | RELOCATE         |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
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NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
MCOMBS ROAD

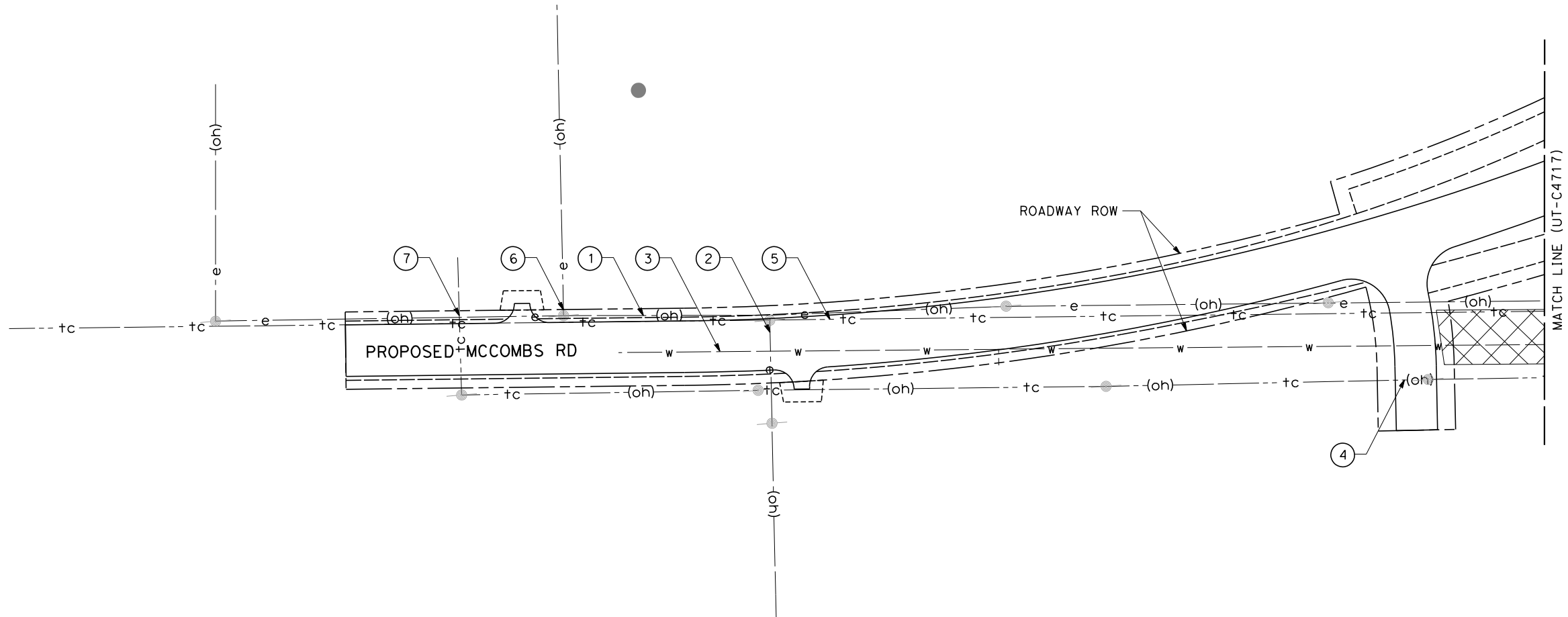
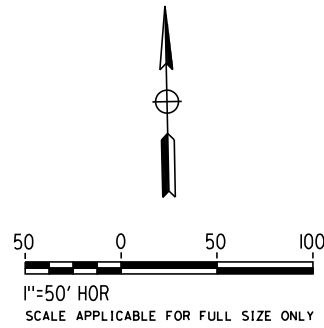
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4717     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>125 OF 163     |

MATCH LINE (UT-C4547)



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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER         | DISPOSITION      |
|-----|------------|------|---------------|------------------|
| ①   | OH POWER   | 12kV | PG&E          | RELOCATE         |
| ②   | OH POWER   | 12kV | PG&E          | RELOCATE         |
| ③   | WATER      | 12"  | CITY OF WASCO | PROTECT-IN-PLACE |
| ④   | OH TELECOM | NA   | UNKNOWN       | RELOCATE         |
| ⑤   | TELECOM    | NA   | UNKNOWN       | RELOCATE         |
| ⑥   | OH POWER   | NA   | UNKNOWN       | RELOCATE         |
| ⑦   | OH TELECOM | NA   | UNKNOWN       | RELOCATE         |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
MCOMBS ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4718     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>126 OF 163     |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**NOT FOR  
CONSTRUCTION**



CONTRACT NO.  
HSR 06-0003

DRAWING NO.  
UT-C4719

SCALE  
AS SHOWN

SHEET NO.  
127 OF 163

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
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| DATE<br>09/30/14        |

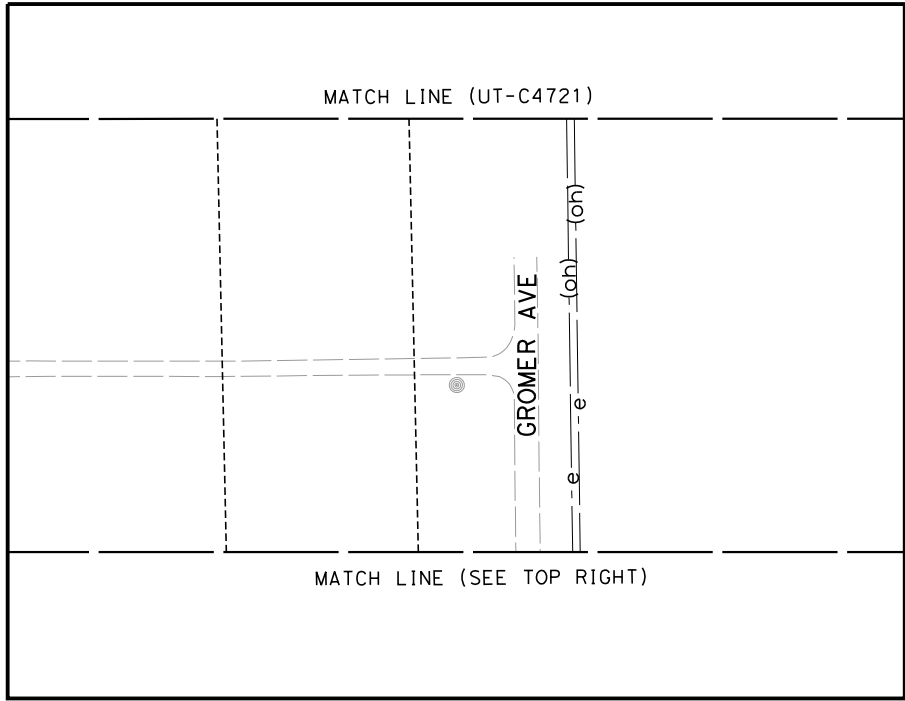
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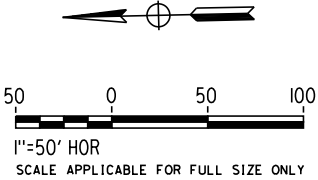
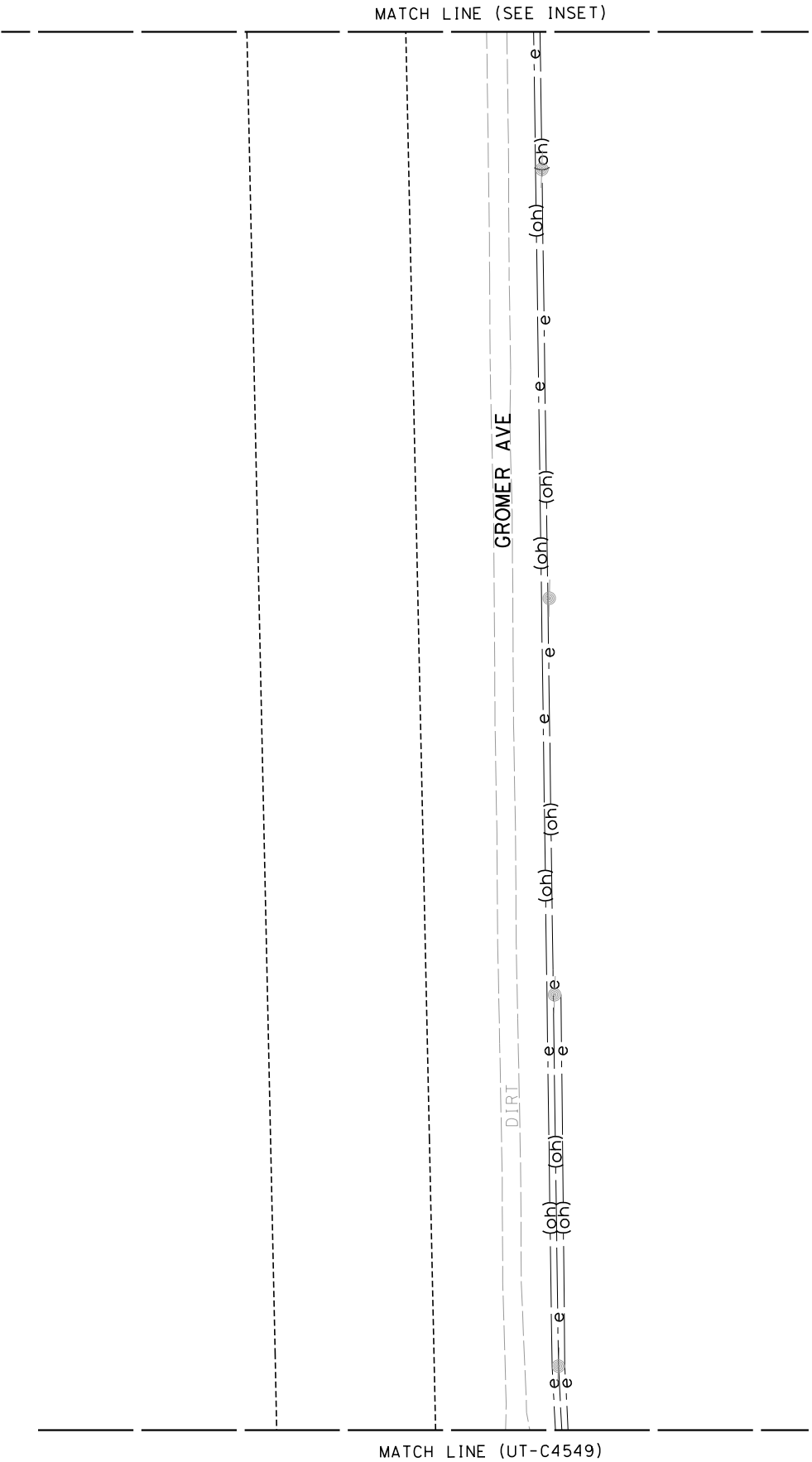


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
GROMER AVENUE ACCESS ROAD

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4720     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>128 OF 163     |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

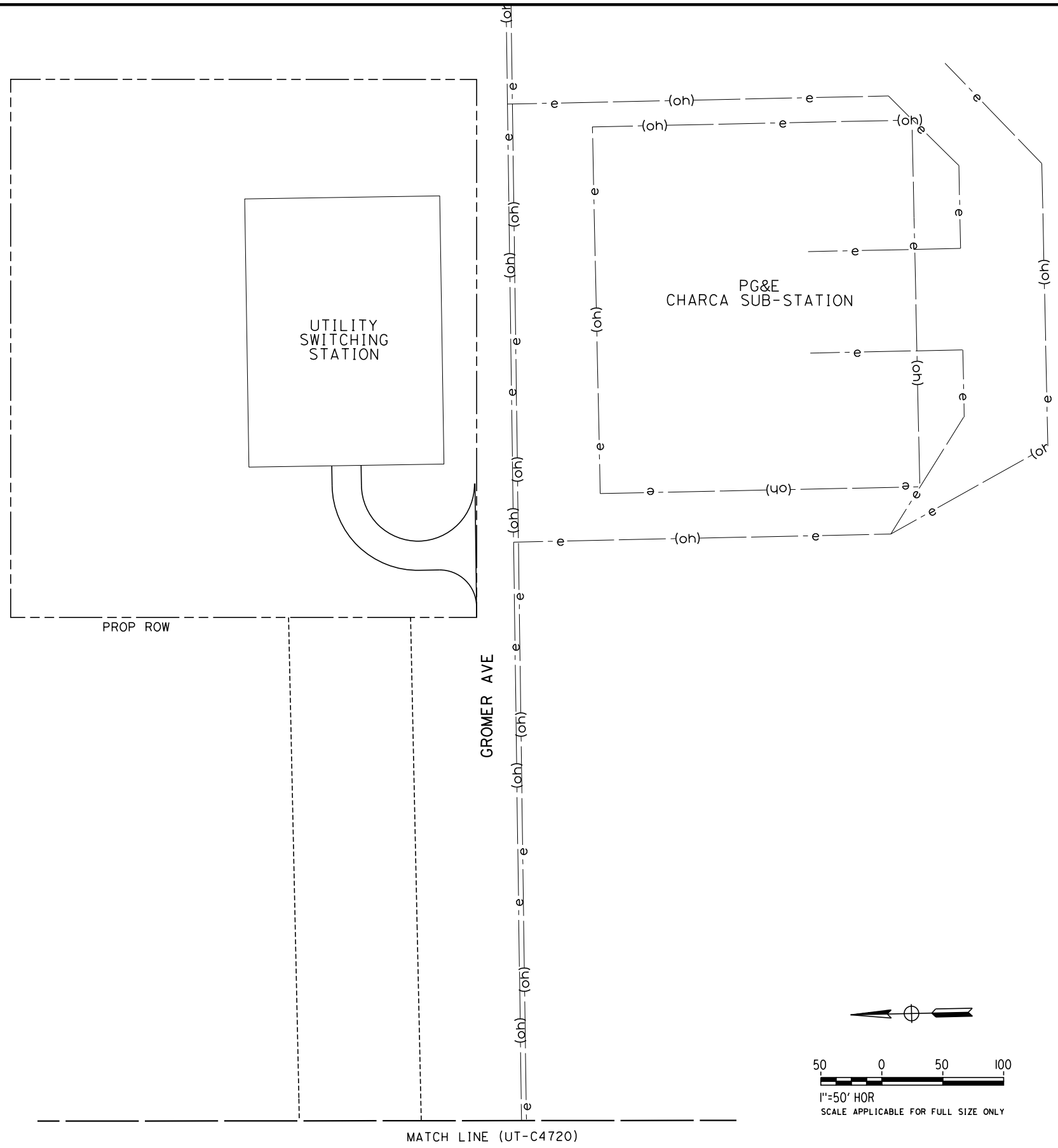
PROPOSED  
PRELIMINARY  
DESIGN

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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
GROMER AVENUE ACCESS ROAD

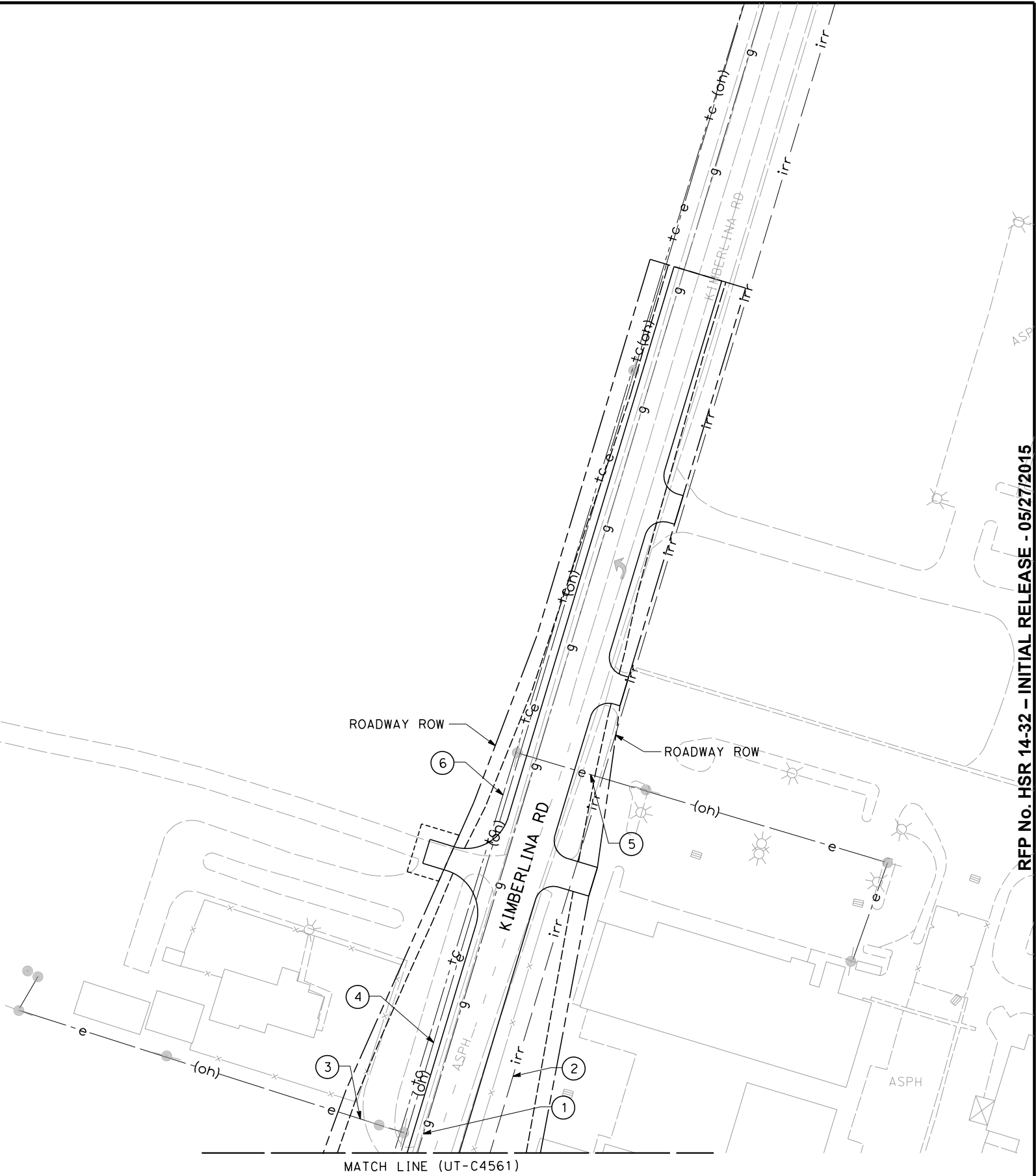
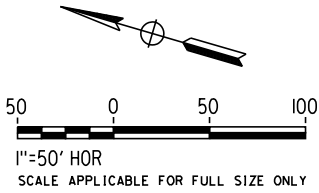
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4721     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>129 OF 163     |



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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| ①   | GAS        | 2"   | SEMPRA                            | RELOCATE    |
| ②   | IRRIGATION | 66"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| ③   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ④   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ⑤   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ⑥   | TELECOM    | NA   | AT&T                              | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION

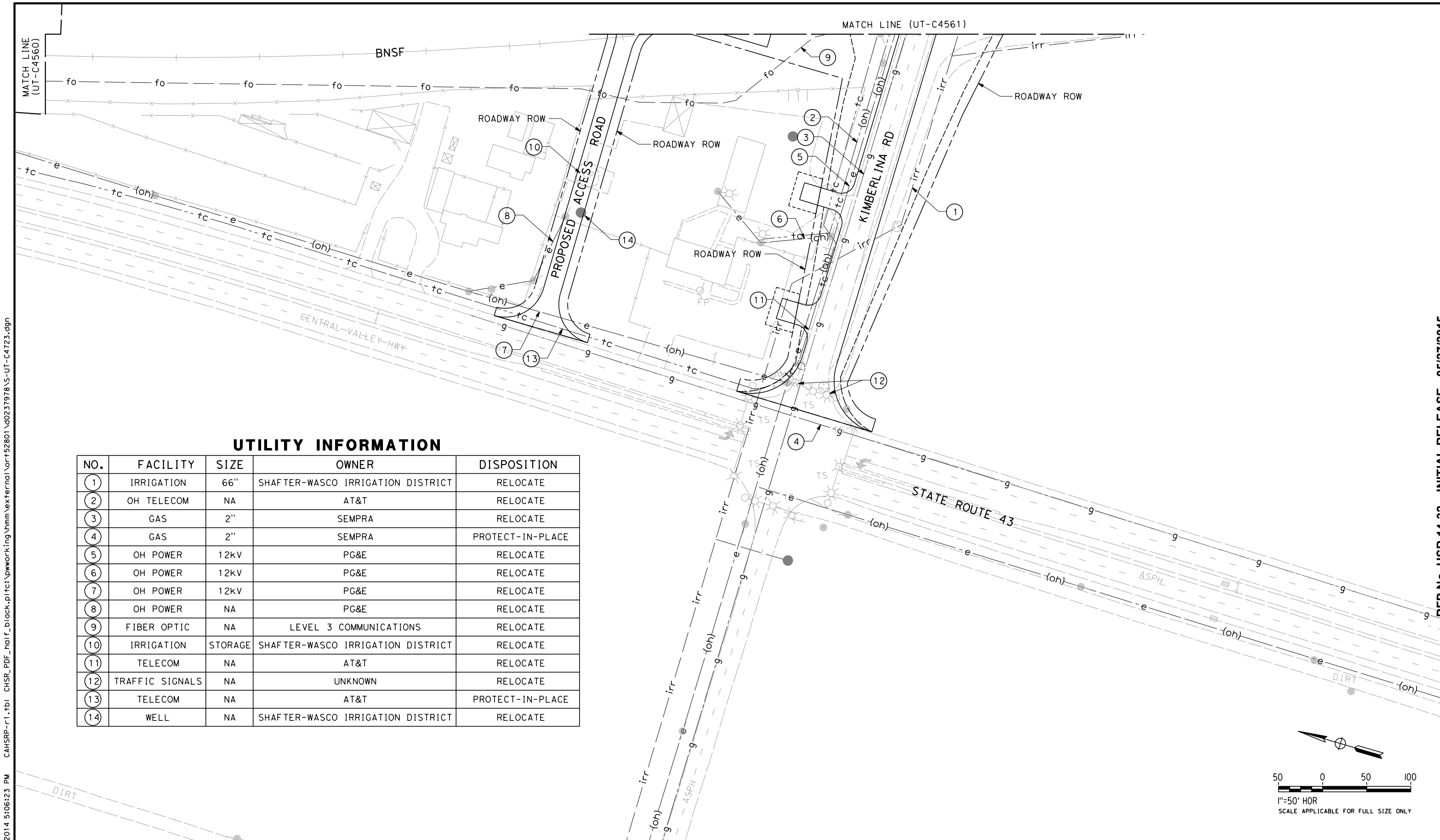


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
KIMBERLINA ROAD

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4722     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>130 OF 163     |

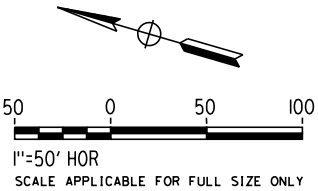
REP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

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UTILITY INFORMATION

| NO. | FACILITY        | SIZE    | OWNER                             | DISPOSITION      |
|-----|-----------------|---------|-----------------------------------|------------------|
| ①   | IRRIGATION      | 66"     | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE         |
| ②   | OH TELECOM      | NA      | AT&T                              | RELOCATE         |
| ③   | GAS             | 2"      | SEMPRA                            | RELOCATE         |
| ④   | GAS             | 2"      | SEMPRA                            | PROTECT-IN-PLACE |
| ⑤   | OH POWER        | 12kV    | PG&E                              | RELOCATE         |
| ⑥   | OH POWER        | 12kV    | PG&E                              | RELOCATE         |
| ⑦   | OH POWER        | 12kV    | PG&E                              | RELOCATE         |
| ⑧   | OH POWER        | NA      | PG&E                              | RELOCATE         |
| ⑨   | FIBER OPTIC     | NA      | LEVEL 3 COMMUNICATIONS            | RELOCATE         |
| ⑩   | IRRIGATION      | STORAGE | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE         |
| ⑪   | TELECOM         | NA      | AT&T                              | RELOCATE         |
| ⑫   | TRAFFIC SIGNALS | NA      | UNKNOWN                           | RELOCATE         |
| ⑬   | TELECOM         | NA      | AT&T                              | PROTECT-IN-PLACE |
| ⑭   | WELL            | NA      | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE         |



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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
KIMBERLINA ROAD

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4723  
SCALE  
AS SHOWN  
SHEET NO.  
131 OF 163

RFP No. HSR 14-32 - INITIAL RELEASE - 05/27/2015



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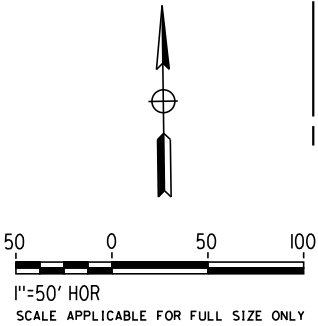
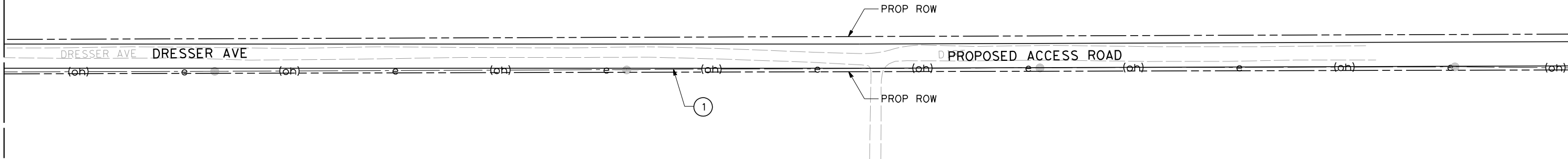
ORT52801

MATCH LINE (UT-C4565)

MATCH LINE (UT-C4725)

UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| ①   | OH POWER | 12kV | PG&E  | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

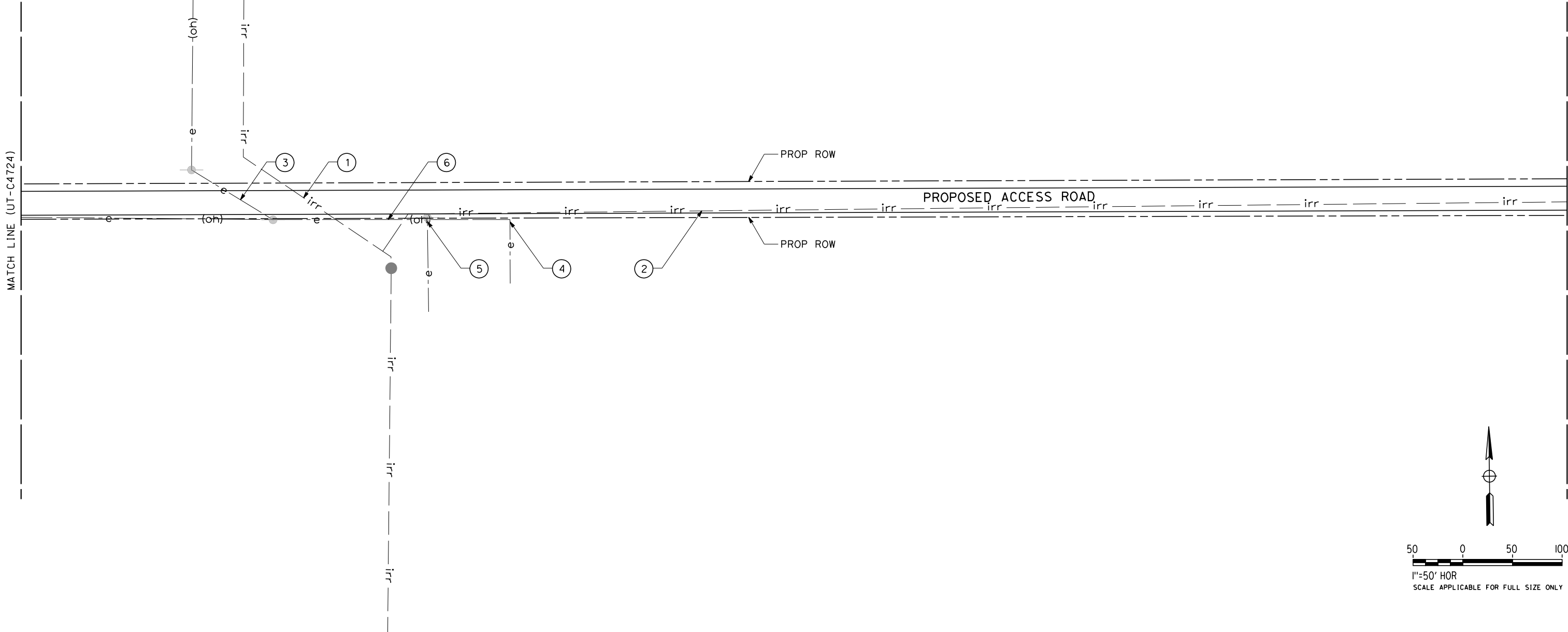
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
DRESSER AVENUE ACCESS ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4724     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>132 OF 163     |

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ORT52801



UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION |
|-----|------------|------|-----------------------------------|-------------|
| ①   | IRRIGATION | 30"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| ②   | IRRIGATION | 8"   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| ③   | OH POWER   | 12kV | PG&E                              | RELOCATE    |
| ④   | OH POWER   | 240V | PG&E                              | RELOCATE    |
| ⑤   | OH POWER   | 240V | PG&E                              | RELOCATE    |
| ⑥   | OH POWER   | 12kV | PG&E                              | RELOCATE    |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
DRESSER AVENUE ACCESS ROAD

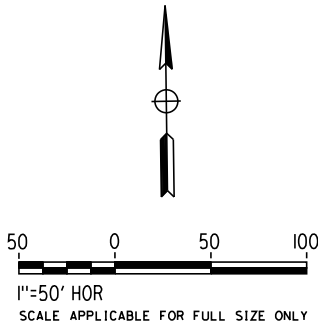
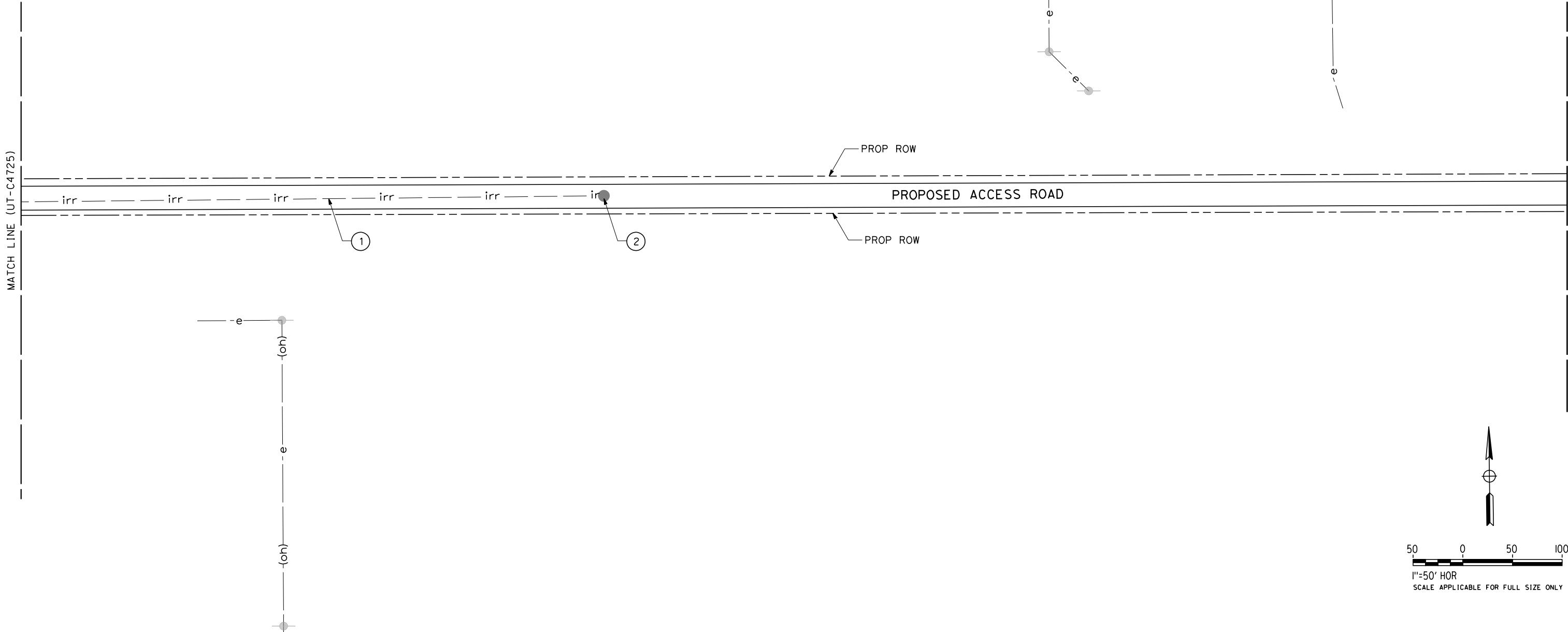
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4725     |
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| SHEET NO.<br>133 OF 163     |

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ORT52801

UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION |
|-----|--------------|------|-----------------------------------|-------------|
| ①   | IRRIGATION   | 8"   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| ②   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
DRESSER AVENUE ACCESS ROAD

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4726     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>134 OF 163     |

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ORT52801

MATCH LINE (UT-C4726)

MATCH LINE (UT-C4728)  
RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

PROPOSED ACCESS ROAD

PROP ROW

PROP ROW



1"=50' HOR  
SCALE APPLICABLE FOR FULL SIZE ONLY

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



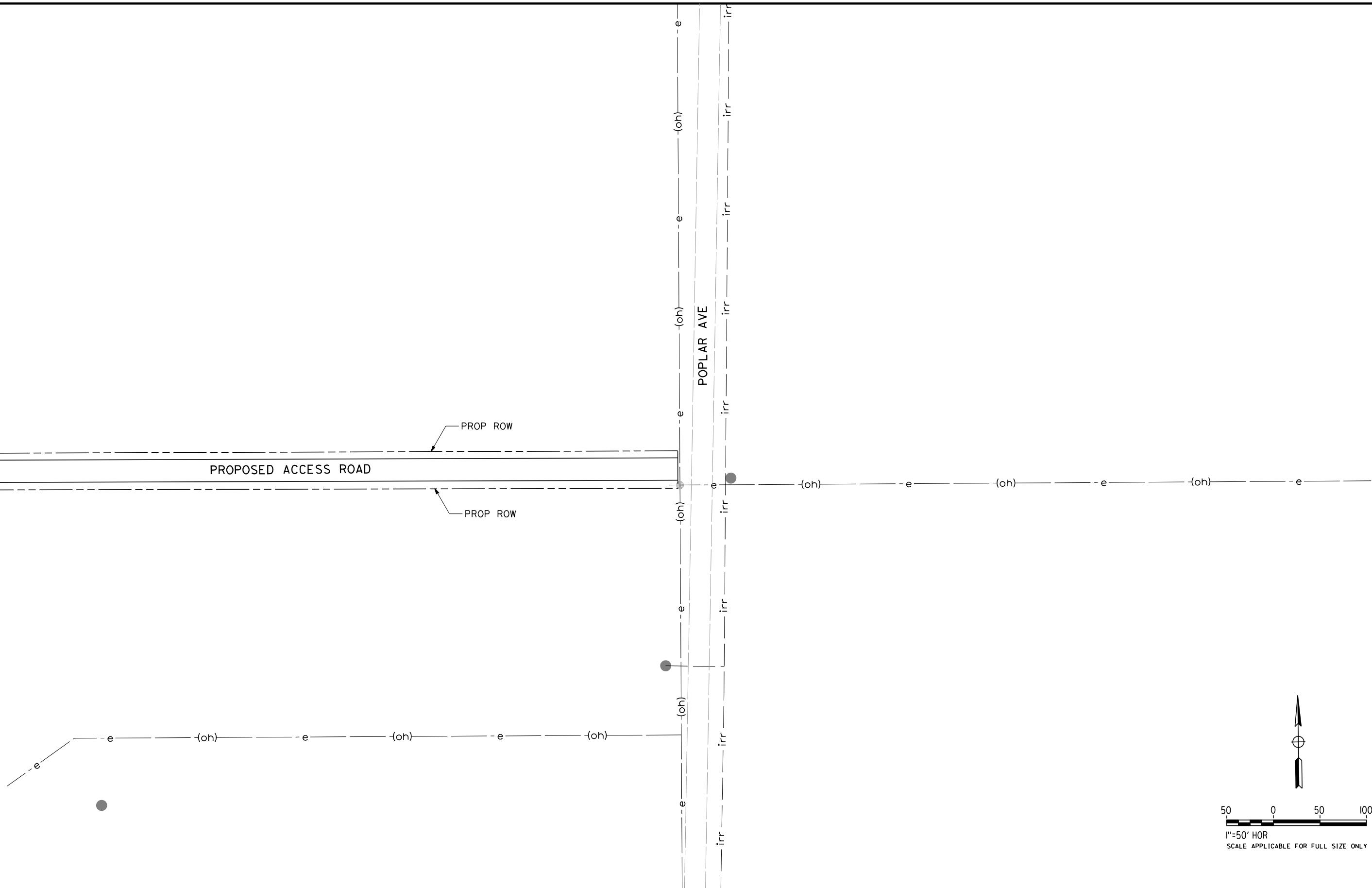
CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
DRESSER AVENUE ACCESS ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4727     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>135 OF 163     |

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ORT52801

MATCH LINE (UT-C4727)



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1

UTILITIES

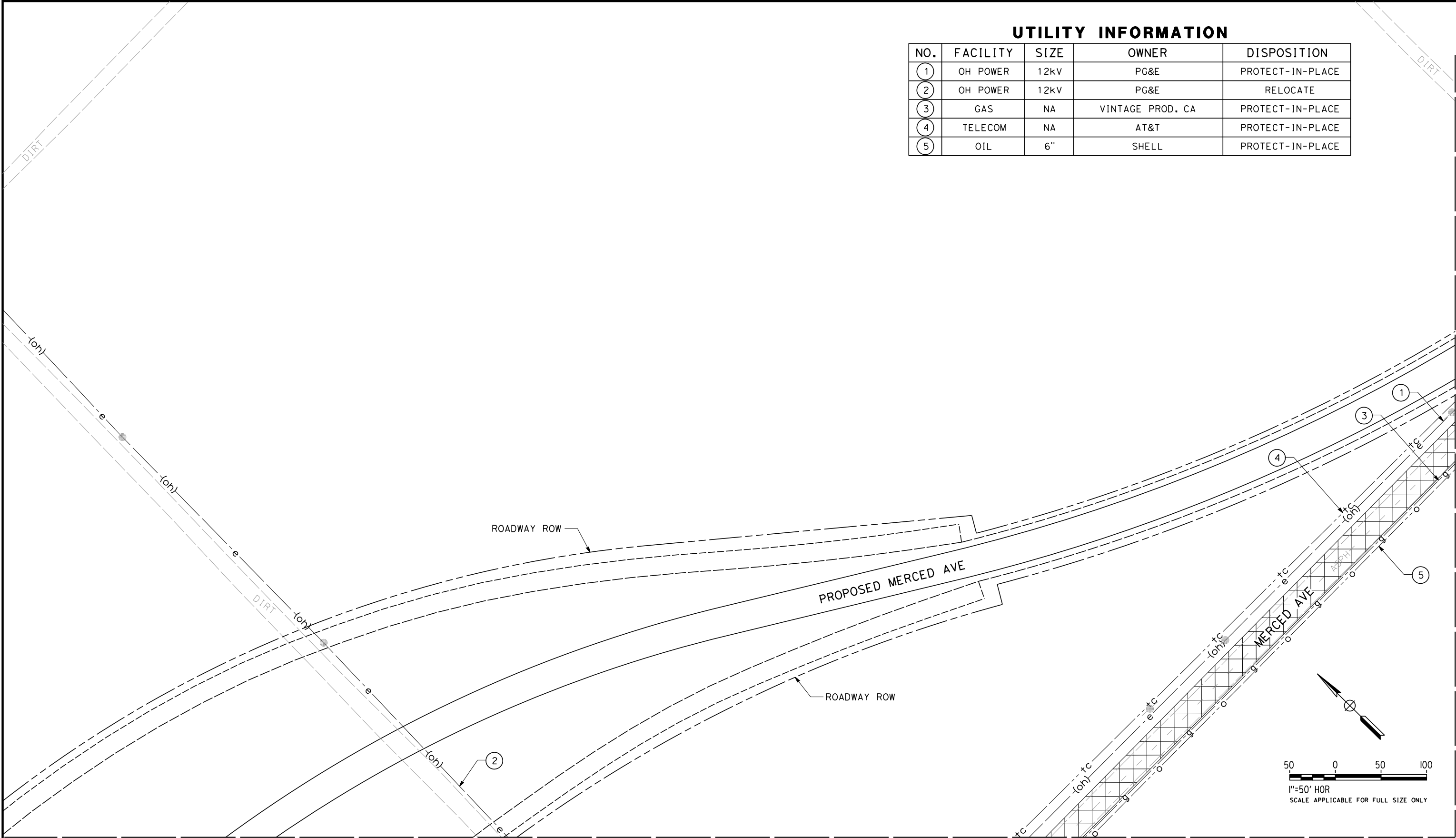
COMPOSITE UTILITY PLAN

DRESSER AVENUE ACCESS ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4728     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>136 OF 163     |

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ORT52801



| UTILITY INFORMATION |          |      |                  |                  |
|---------------------|----------|------|------------------|------------------|
| NO.                 | FACILITY | SIZE | OWNER            | DISPOSITION      |
| ①                   | OH POWER | 12kV | PG&E             | PROTECT-IN-PLACE |
| ②                   | OH POWER | 12kV | PG&E             | RELOCATE         |
| ③                   | GAS      | NA   | VINTAGE PROD. CA | PROTECT-IN-PLACE |
| ④                   | TELECOM  | NA   | AT&T             | PROTECT-IN-PLACE |
| ⑤                   | OIL      | 6"   | SHELL            | PROTECT-IN-PLACE |

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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
MERCED AVENUE

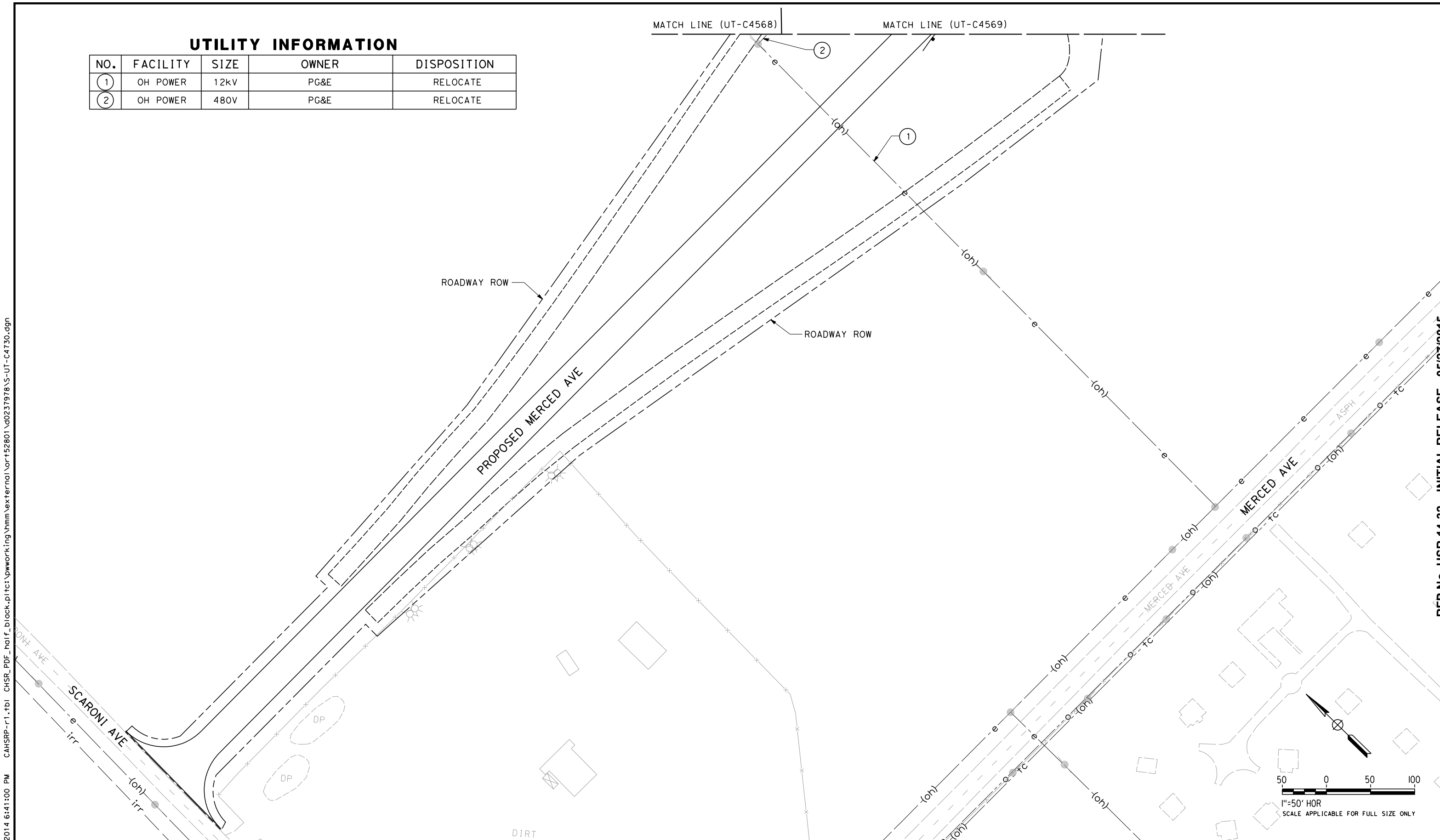
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DRAWING NO.  
UT-C4729  
SCALE  
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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| 1   | OH POWER | 12kV | PG&E  | RELOCATE    |
| 2   | OH POWER | 480V | PG&E  | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**

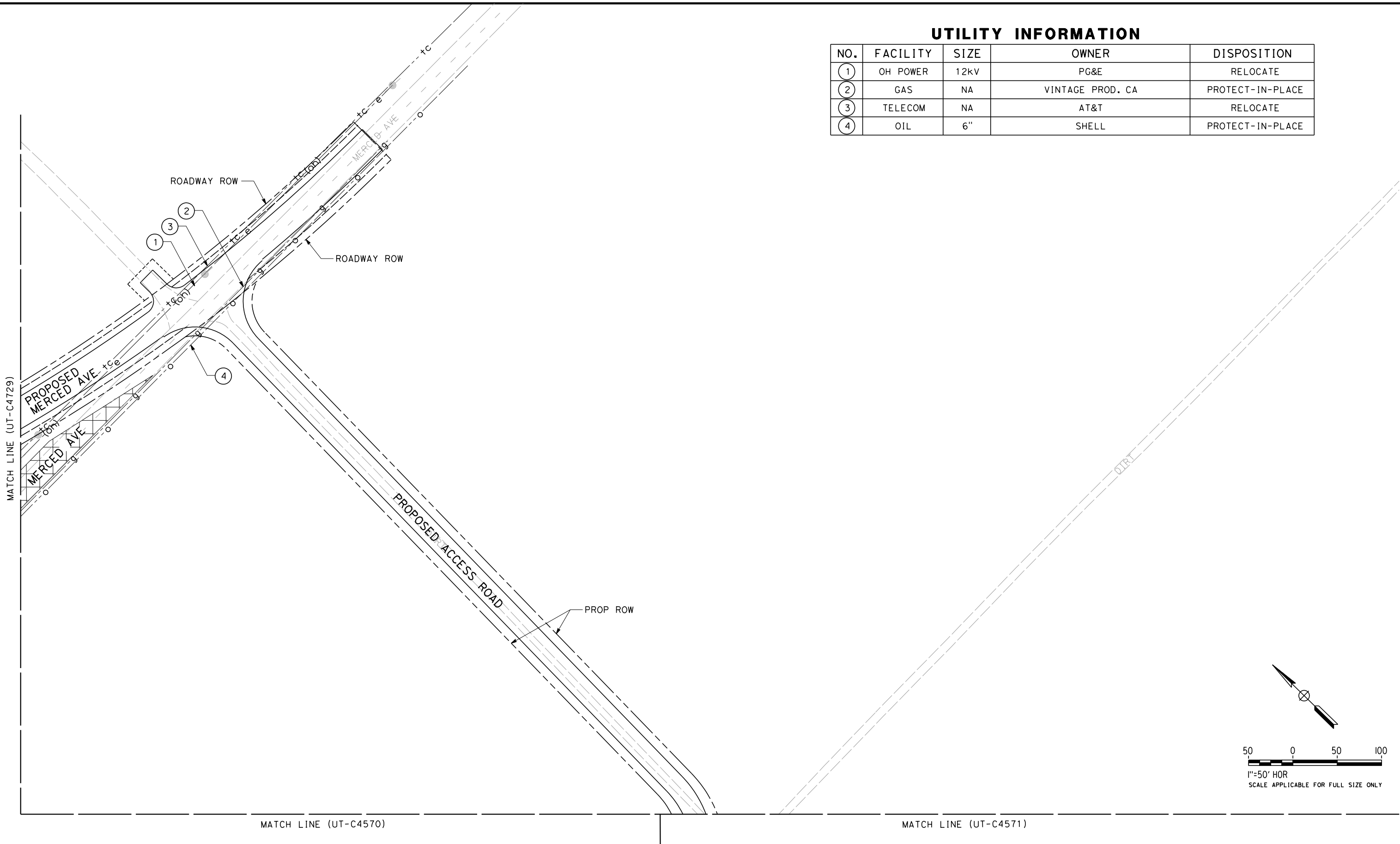


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
MERCED AVE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4730  
SCALE  
AS SHOWN  
SHEET NO.  
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| UTILITY INFORMATION |          |      |                  |                  |
|---------------------|----------|------|------------------|------------------|
| NO.                 | FACILITY | SIZE | OWNER            | DISPOSITION      |
| ①                   | OH POWER | 12kV | PG&E             | RELOCATE         |
| ②                   | GAS      | NA   | VINTAGE PROD. CA | PROTECT-IN-PLACE |
| ③                   | TELECOM  | NA   | AT&T             | RELOCATE         |
| ④                   | OIL      | 6"   | SHELL            | PROTECT-IN-PLACE |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

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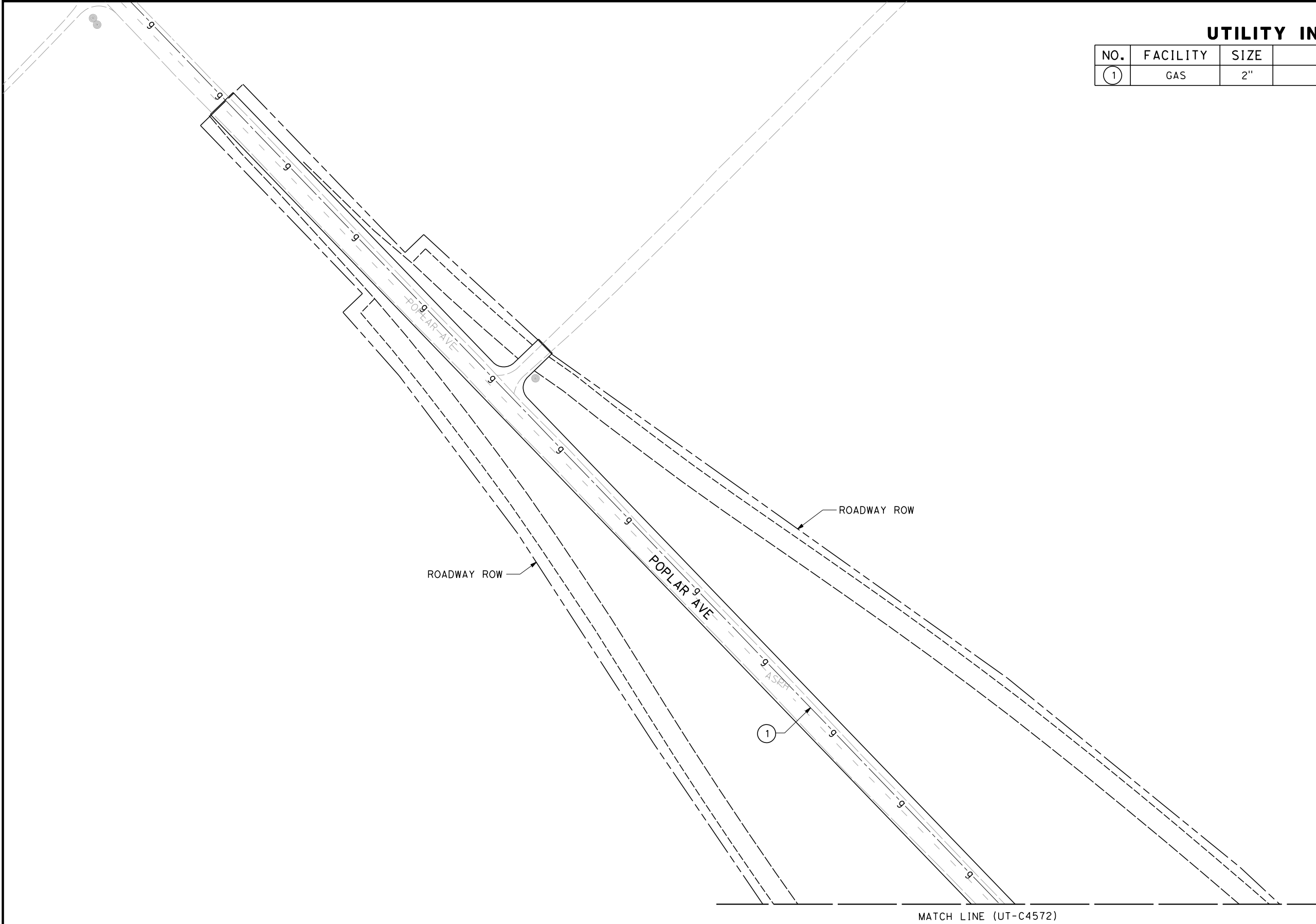


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
MERCED AVENUE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4731  
SCALE  
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139 OF 163

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ORT52801



UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER  | DISPOSITION |
|-----|----------|------|--------|-------------|
| ①   | GAS      | 2"   | SEMPRA | RELOCATE    |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1

UTILITIES

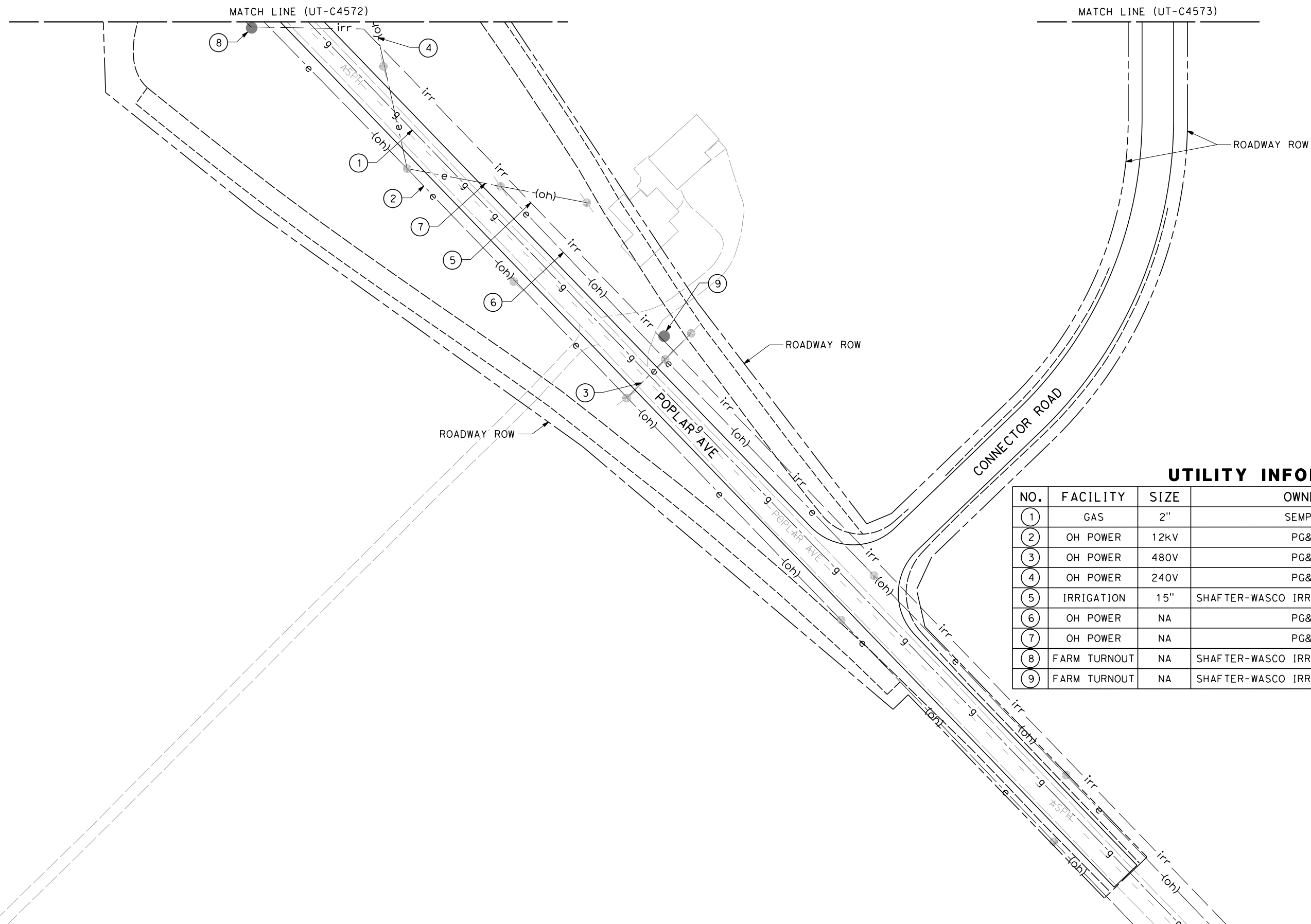
COMPOSITE UTILITY PLAN

POPLAR AVENUE

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4732     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>140 OF 163     |

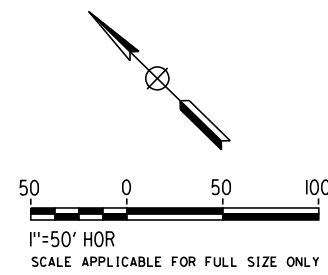
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UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION |
|-----|--------------|------|-----------------------------------|-------------|
| 1   | GAS          | 2"   | SEMPRA                            | RELOCATE    |
| 2   | OH POWER     | 12kV | PG&E                              | RELOCATE    |
| 3   | OH POWER     | 480V | PG&E                              | RELOCATE    |
| 4   | OH POWER     | 240V | PG&E                              | REMOVE      |
| 5   | IRRIGATION   | 15"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| 6   | OH POWER     | NA   | PG&E                              | RELOCATE    |
| 7   | OH POWER     | NA   | PG&E                              | REMOVE      |
| 8   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| 9   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
T. RAMIL  
DRAWN BY  
V. ORTEGA  
CHECKED BY  
T. GRAU  
IN CHARGE  
S. BURGESS  
DATE  
09/30/14

PROPOSED  
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DESIGN  
  
NOT FOR  
CONSTRUCTION

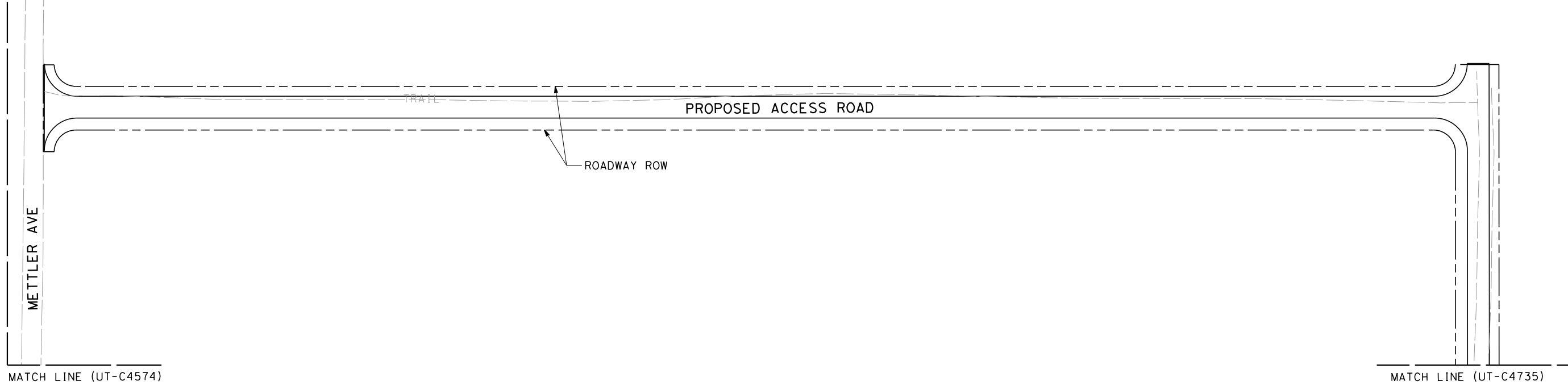


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
POPLAR AVENUE

CONTRACT NO.  
HSR 06-0003  
DRAWING NO.  
UT-C4733  
SCALE  
AS SHOWN  
SHEET NO.  
141 OF 163

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
FRESNO AVENUE PROPOSED ACCESS ROAD

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4734     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>142 OF 163     |

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
FRESNO AVENUE

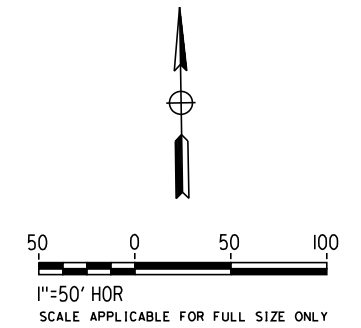
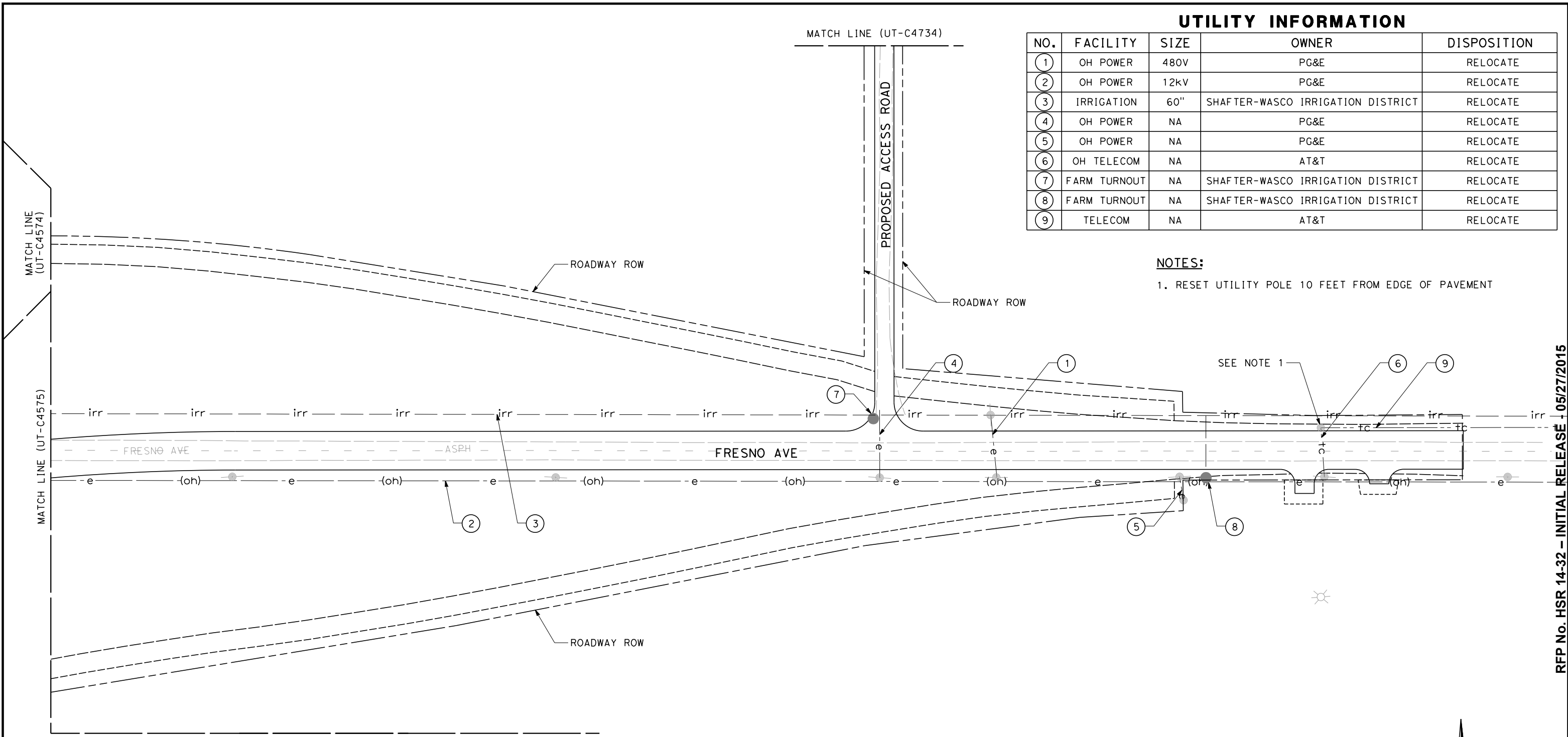
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4735     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>143 OF 163     |

UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION |
|-----|--------------|------|-----------------------------------|-------------|
| ①   | OH POWER     | 480V | PG&E                              | RELOCATE    |
| ②   | OH POWER     | 12kV | PG&E                              | RELOCATE    |
| ③   | IRRIGATION   | 60"  | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| ④   | OH POWER     | NA   | PG&E                              | RELOCATE    |
| ⑤   | OH POWER     | NA   | PG&E                              | RELOCATE    |
| ⑥   | OH TELECOM   | NA   | AT&T                              | RELOCATE    |
| ⑦   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| ⑧   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |
| ⑨   | TELECOM      | NA   | AT&T                              | RELOCATE    |

NOTES:

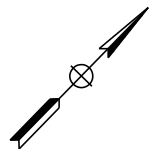
1. RESET UTILITY POLE 10 FEET FROM EDGE OF PAVEMENT



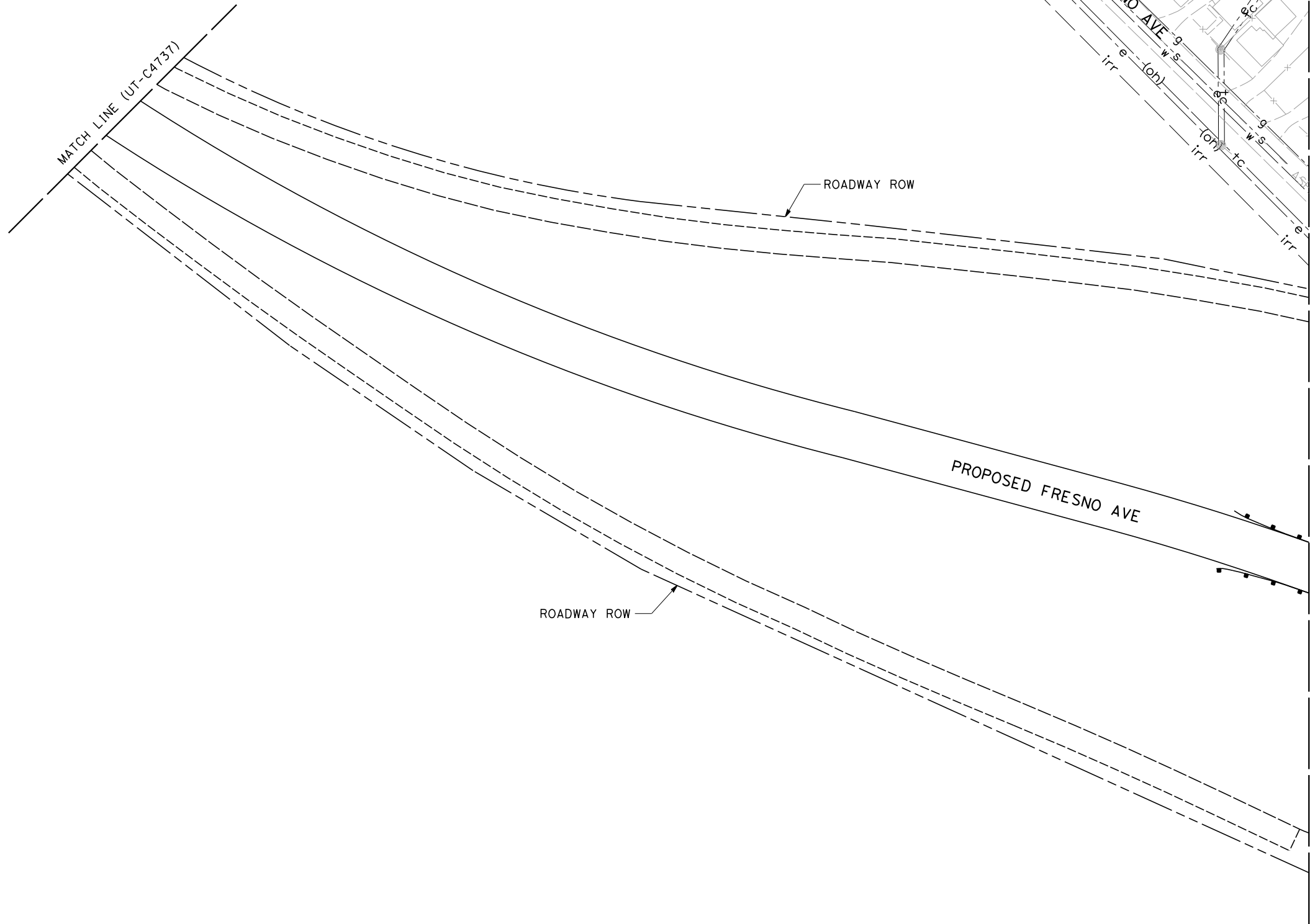
RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015



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1"=50' HOR  
SCALE APPLICABLE FOR FULL SIZE ONLY



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
FRESNO AVENUE

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4736     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>144 OF 163     |

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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

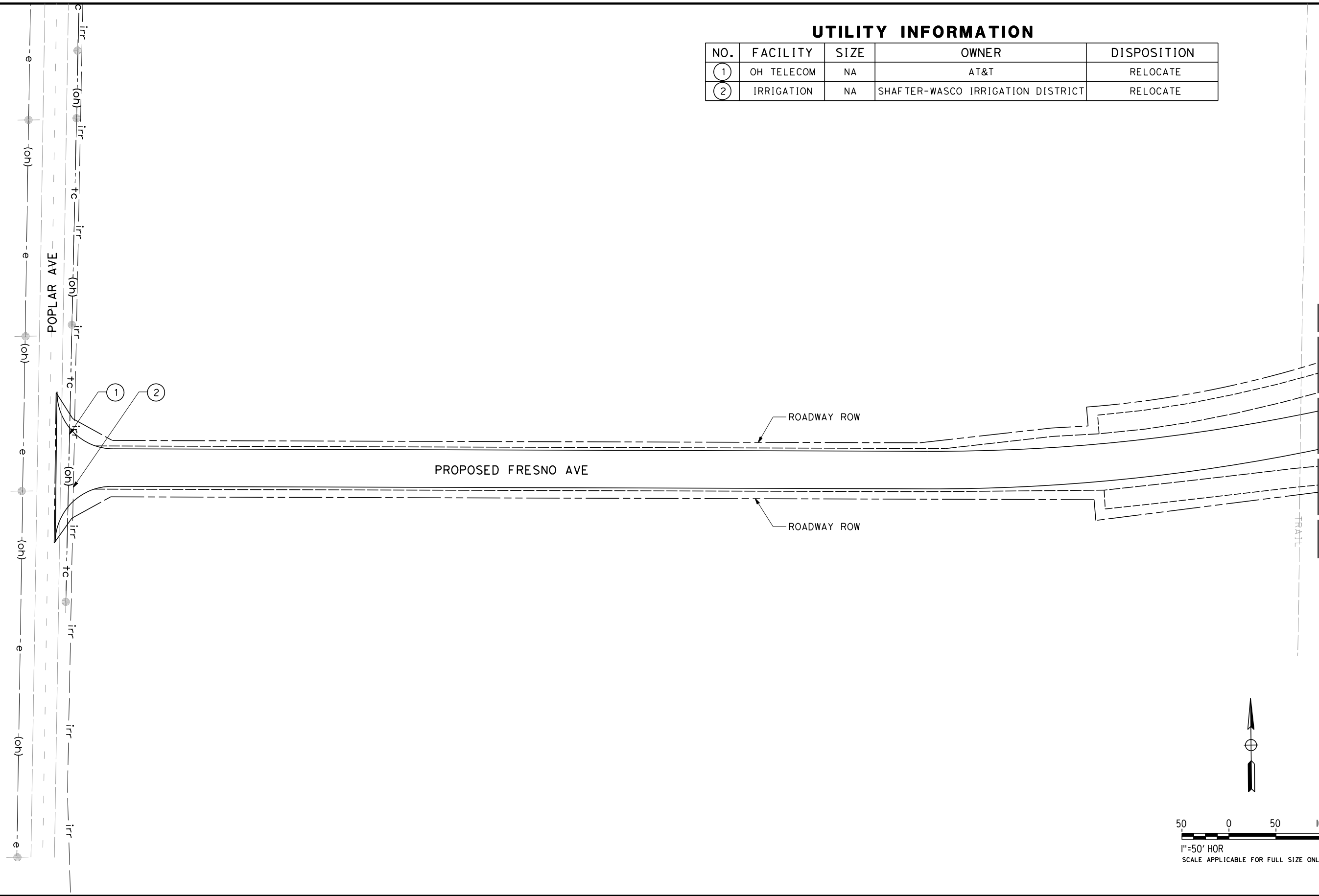
PROPOSED  
PRELIMINARY  
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NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
FRESNO AVENUE

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4737     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>145 OF 163     |



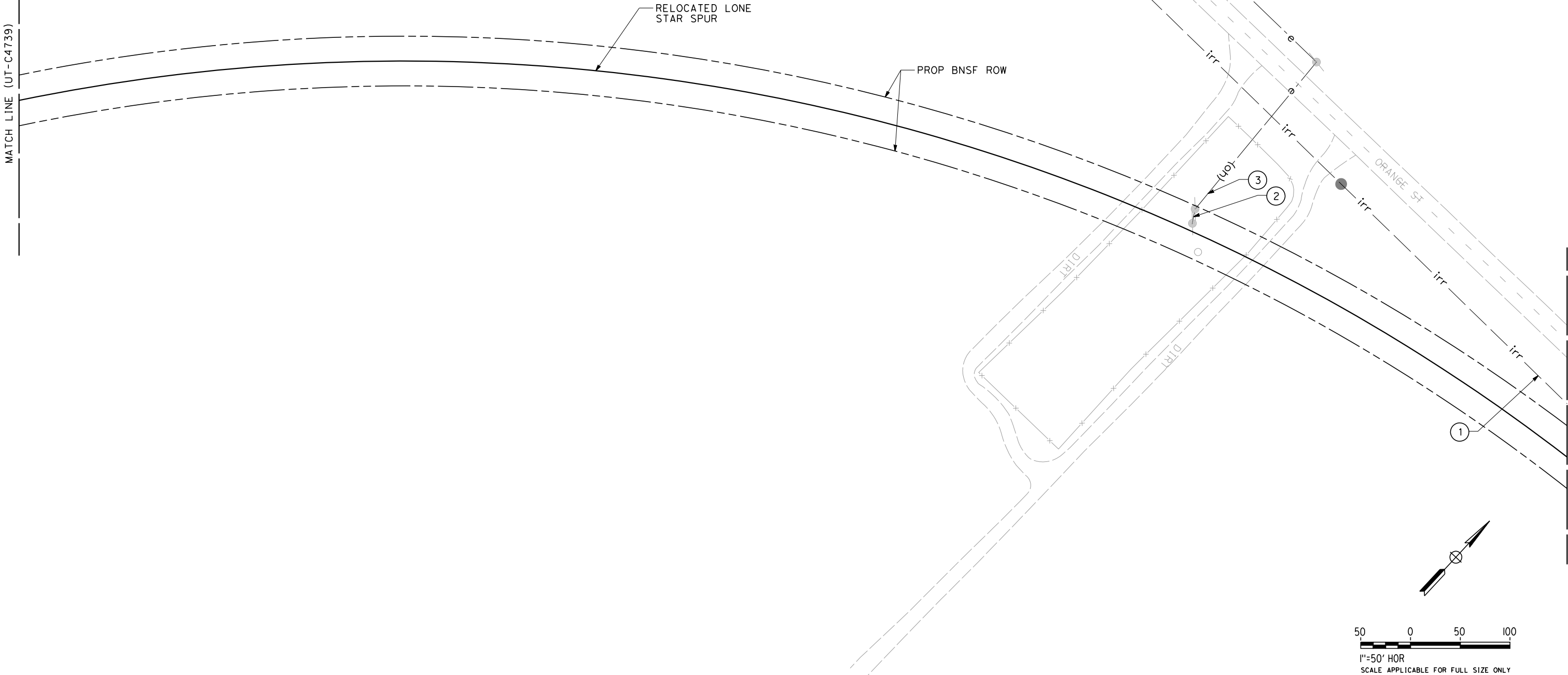
| UTILITY INFORMATION |            |      |                                   |             |
|---------------------|------------|------|-----------------------------------|-------------|
| NO.                 | FACILITY   | SIZE | OWNER                             | DISPOSITION |
| ①                   | OH TELECOM | NA   | AT&T                              | RELOCATE    |
| ②                   | IRRIGATION | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |

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UTILITY INFORMATION

| NO. | FACILITY   | SIZE | OWNER                             | DISPOSITION      |
|-----|------------|------|-----------------------------------|------------------|
| ①   | IRRIGATION | 15"  | SHAFTER-WASCO IRRIGATION DISTRICT | PROTECT-IN-PLACE |
| ②   | OH POWER   | 480V | PG&E                              | RELOCATE         |
| ③   | OH POWER   | 12kV | PG&E                              | RELOCATE         |



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| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN  
  
NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
RELOCATED LONE STAR SPUR

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4738     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>146 OF 163     |

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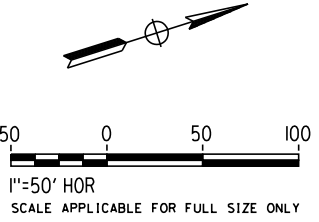
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MATCH LINE (UT-C4740)

RELOCATED LONE  
STAR SPUR

PROP BNSF ROW

MATCH LINE (UT-C4738)



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

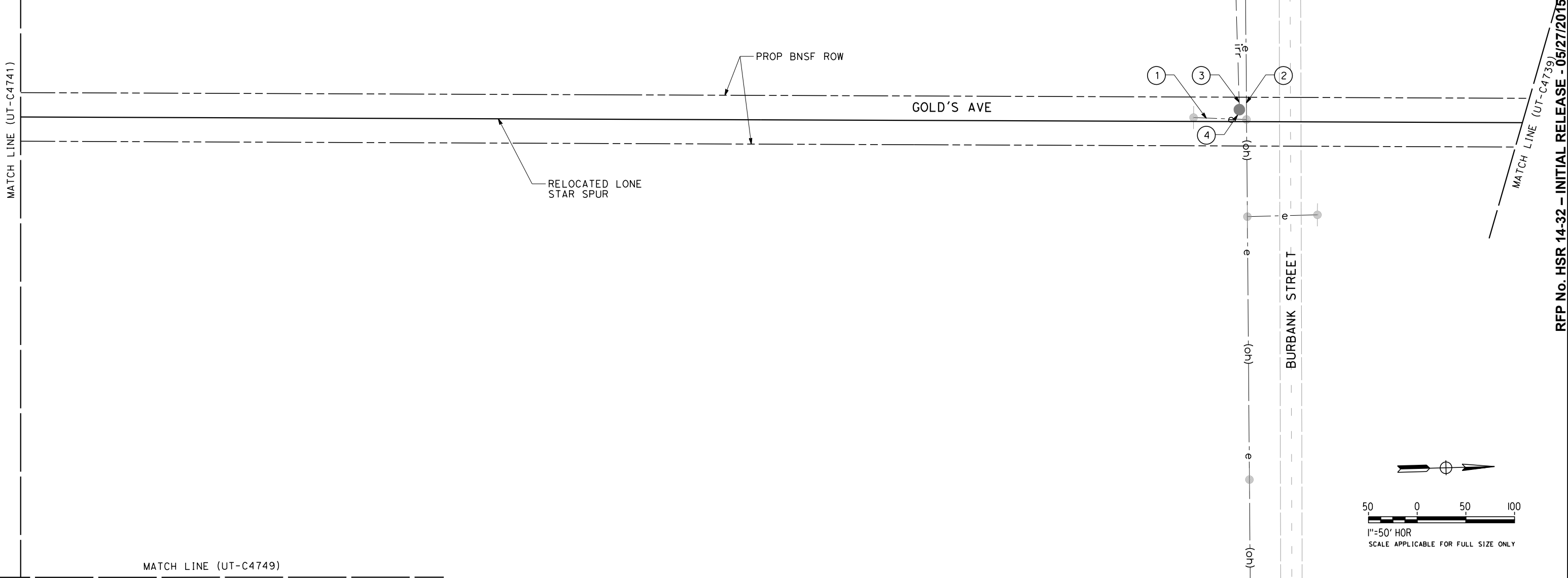
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
RELOCATED LONE STAR SPUR

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4739     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>147 OF 163     |

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UTILITY INFORMATION

| NO. | FACILITY     | SIZE | OWNER                             | DISPOSITION |
|-----|--------------|------|-----------------------------------|-------------|
| ①   | OH POWER     | 480V | PG&E                              | RELOCATE    |
| ②   | OH POWER     | 12kV | PG&E                              | RELOCATE    |
| ③   | IRRIGATION   | NA   | UNKNOWN                           | RELOCATE    |
| ④   | FARM TURNOUT | NA   | SHAFTER-WASCO IRRIGATION DISTRICT | RELOCATE    |



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DRAWN BY<br>V. ORTEGA   |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
RELOCATED LONE STAR SPUR

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4740     |
| SCALE<br>AS SHOWN           |
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| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

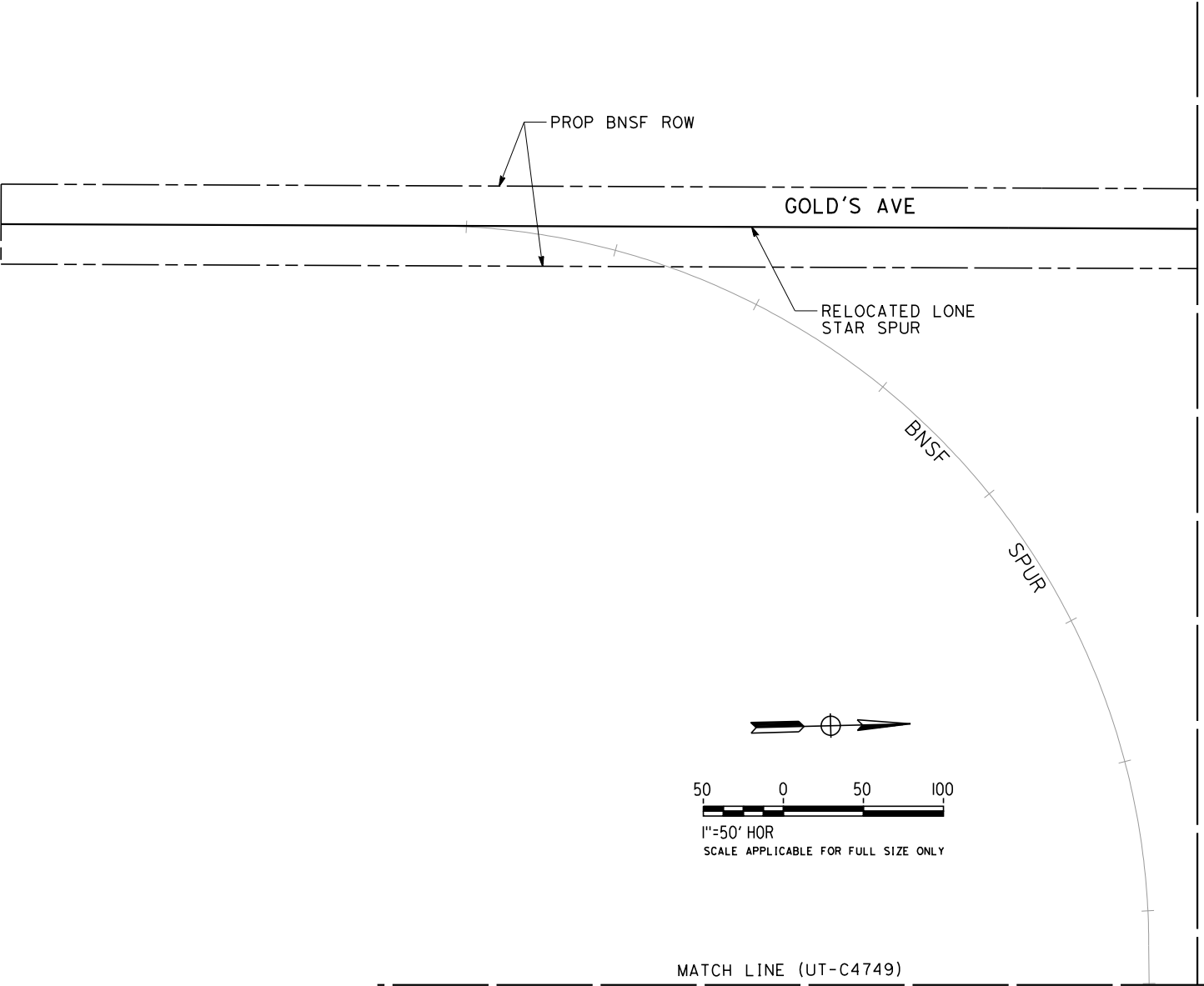
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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
RELOCATED LONE STAR SPUR

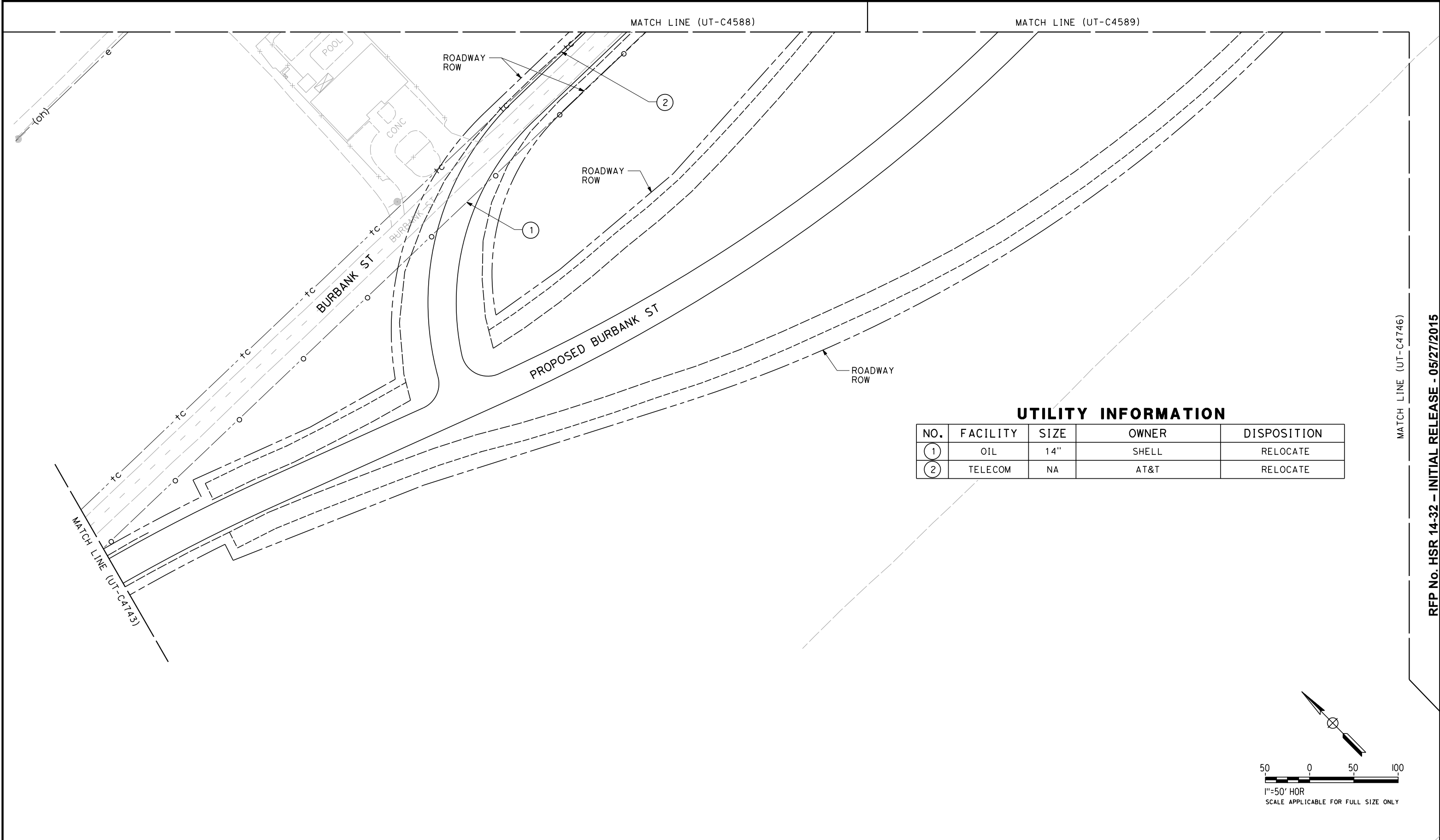
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UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| ①   | OIL      | 14"  | SHELL | RELOCATE    |
| ②   | TELECOM  | NA   | AT&T  | RELOCATE    |

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DRAWN BY<br>V. ORTEGA   |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
BURBANK STREET

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4742     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>150 OF 163     |

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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY<br>T. RAMIL |
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| DATE<br>09/30/14        |

PROPOSED  
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NOT FOR  
CONSTRUCTION

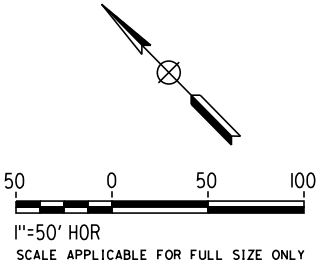
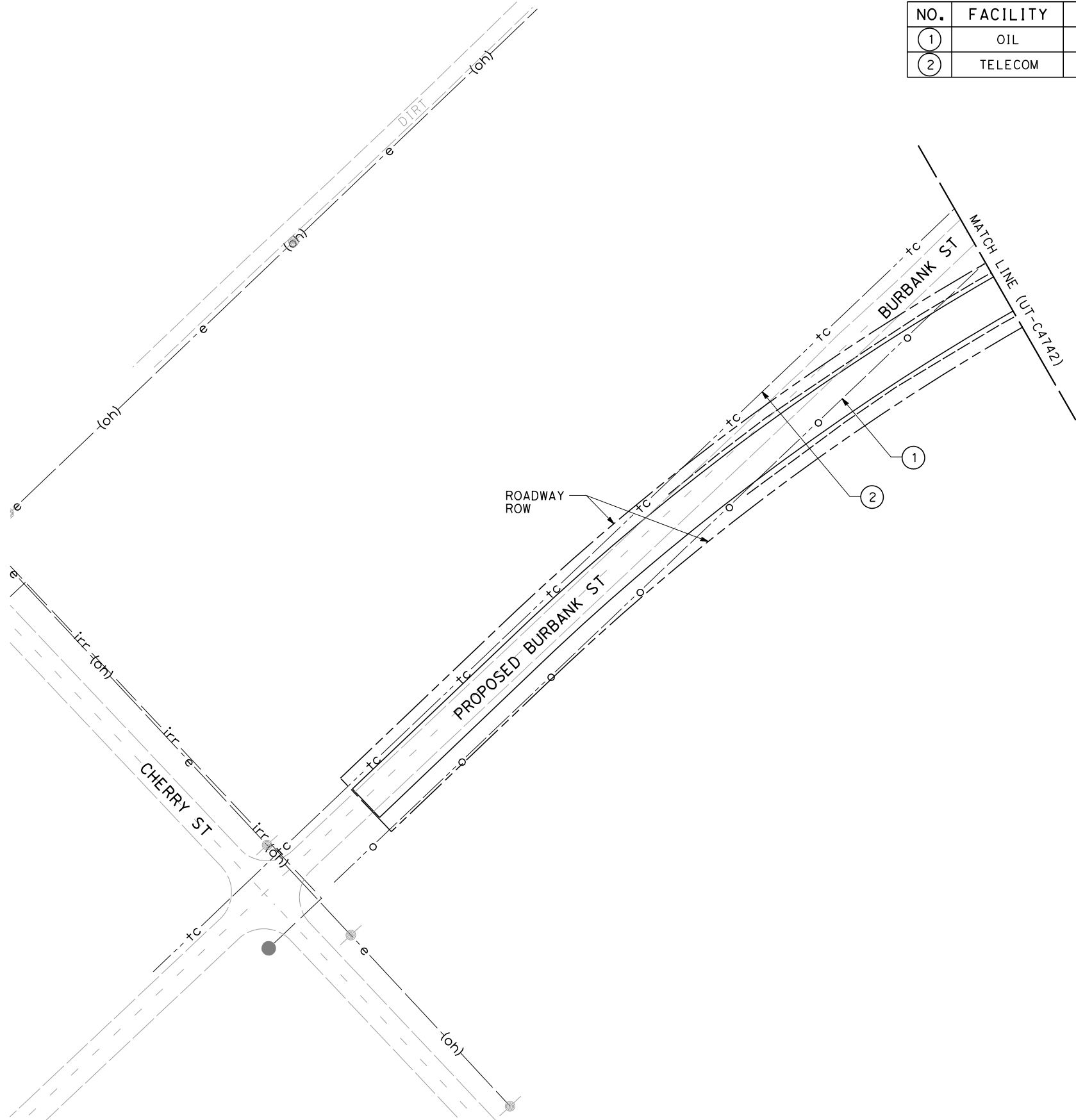


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
BURBANK STREET

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4743     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>151 OF 163     |

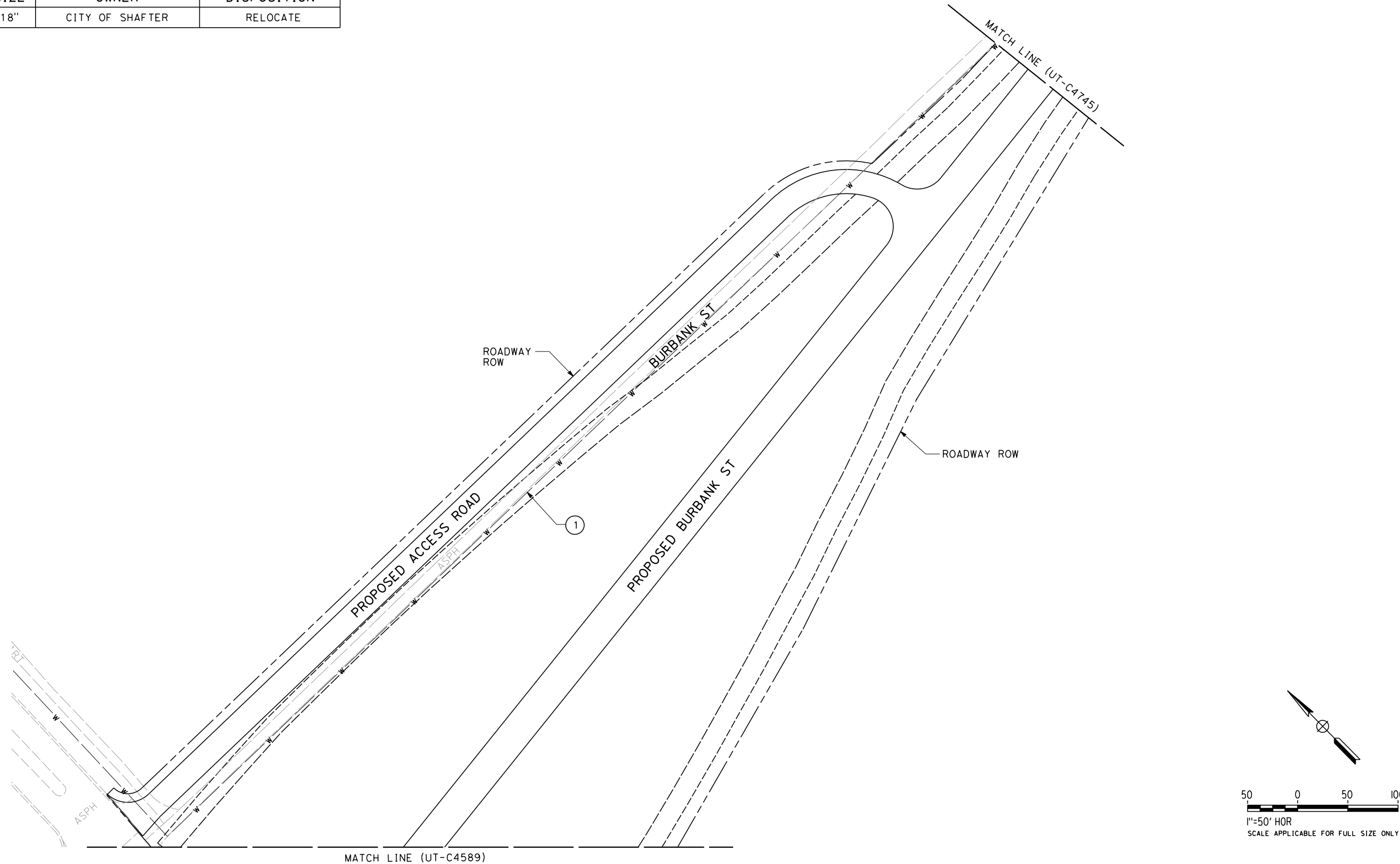
UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION      |
|-----|----------|------|-------|------------------|
| ①   | OIL      | 14"  | SHELL | RELOCATE         |
| ②   | TELECOM  | NA   | AT&T  | PROTECT-IN-PLACE |



UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER           | DISPOSITION |
|-----|----------|------|-----------------|-------------|
| 1   | WATER    | 18"  | CITY OF SHAFTER | RELOCATE    |



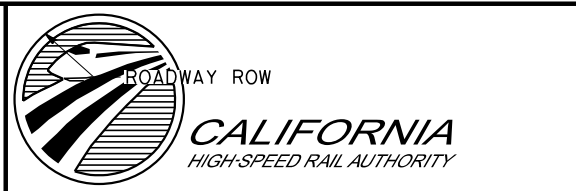
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1

UTILITIES

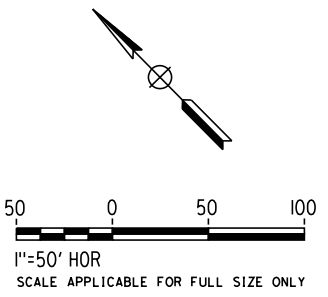
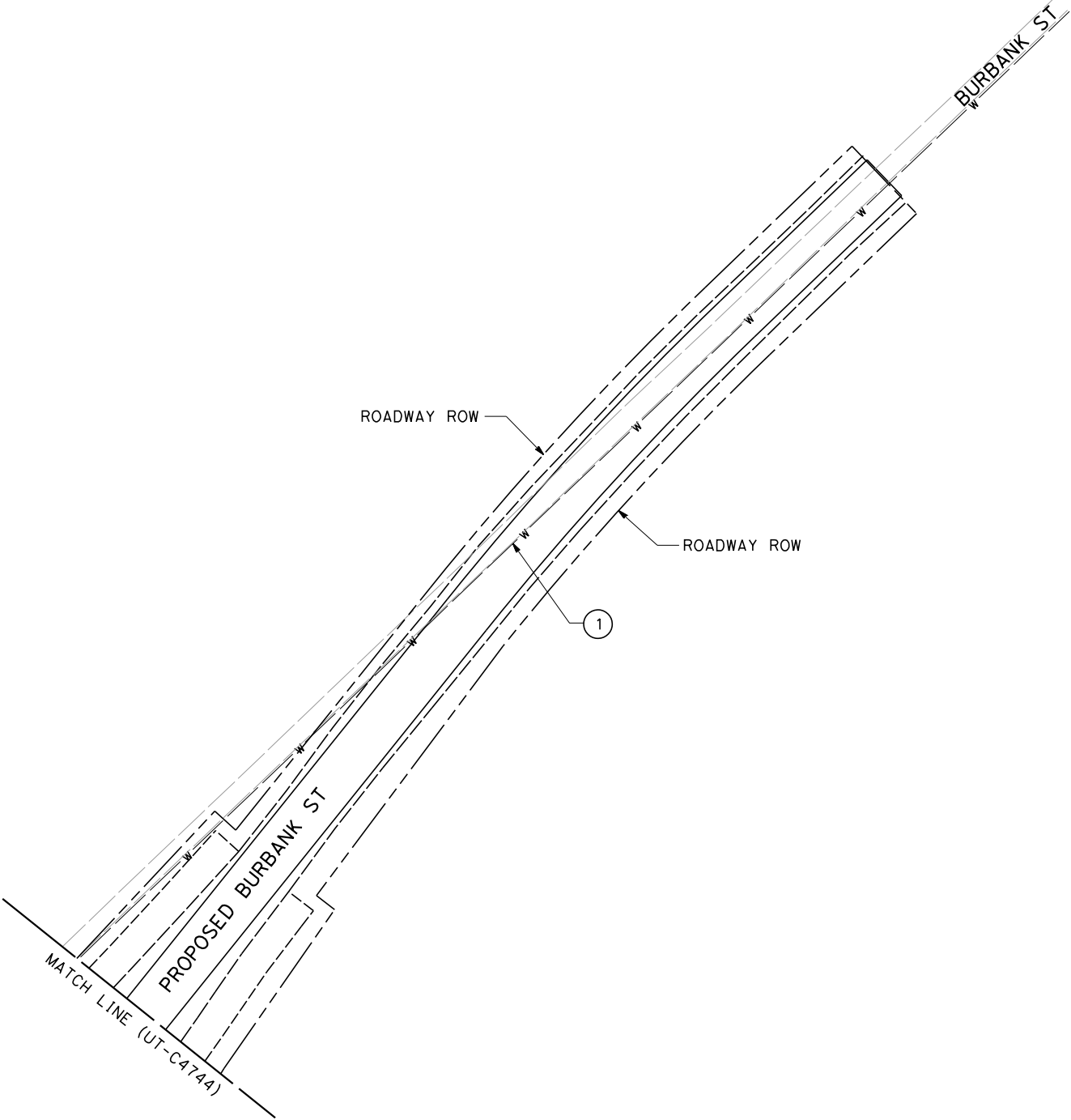
COMPOSITE UTILITY PLAN

BURBANK STREET

|                             |
|-----------------------------|
| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4744     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>152 OF 163     |

UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER           | DISPOSITION |
|-----|----------|------|-----------------|-------------|
| ①   | WATER    | 18"  | CITY OF SHAFTER | RELOCATE    |



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



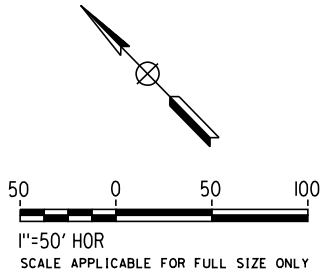
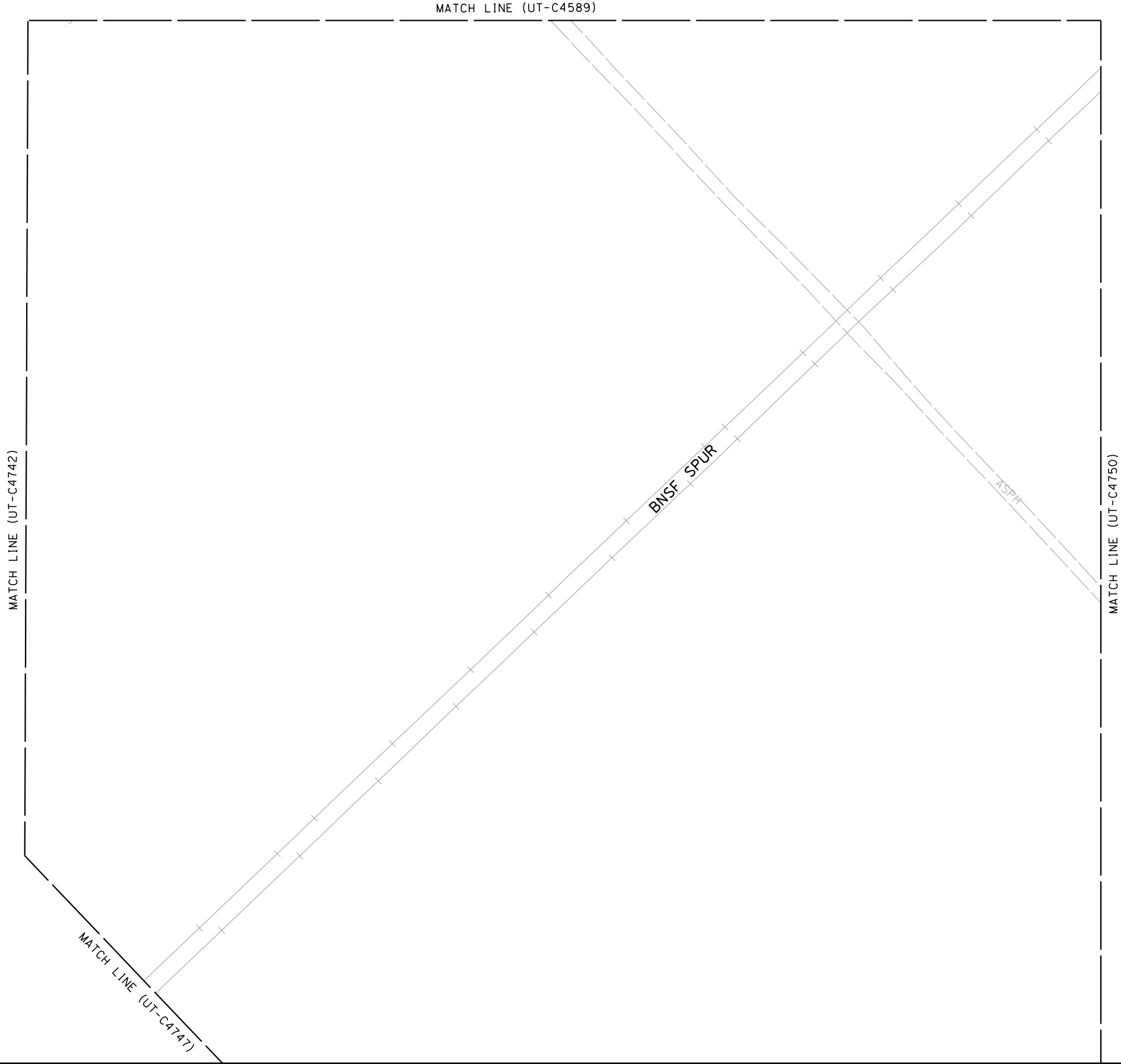
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
BURBANK STREET

|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4745     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>153 OF 163     |

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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**

PACKAGE 4 - ALIGNMENT WS1

UTILITIES

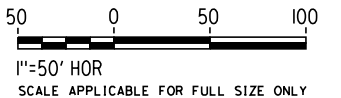
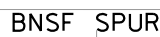
COMPOSITE UTILITY PLAN

EXISTING LONE STAR SPUR ABANDONMENT

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4746     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>154 OF 163     |

MATCH LINE (UT-C4748)

MATCH LINE (UT-C4746)



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| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA**  
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
EXISTING LONE STAR SPUR ABANDONMENT

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| CONTRACT NO. | HSR 06-0003 |
| DRAWING NO.  | UT-C4747    |
| SCALE        | AS SHOWN    |
| SHEET NO.    | 155 OF 163  |



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MATCH LINE (UT-C4749)

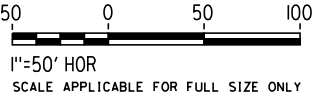
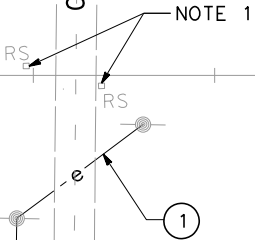
UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER   | DISPOSITION |
|-----|----------|------|---------|-------------|
| ①   | OH POWER | NA   | UNKNOWN | REMOVE      |

- NOTES:
1. ASSUMED BNSF GRADE CROSSING INFRASTRUCTURE.

BNSF SPUR

CHERRY AVE



MATCH LINE (UT-C4747)

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

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| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

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CONSTRUCTION

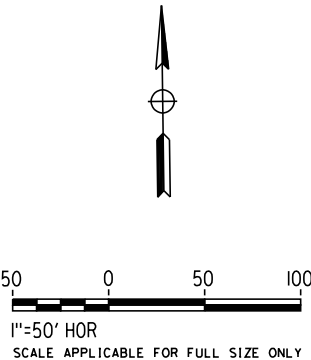
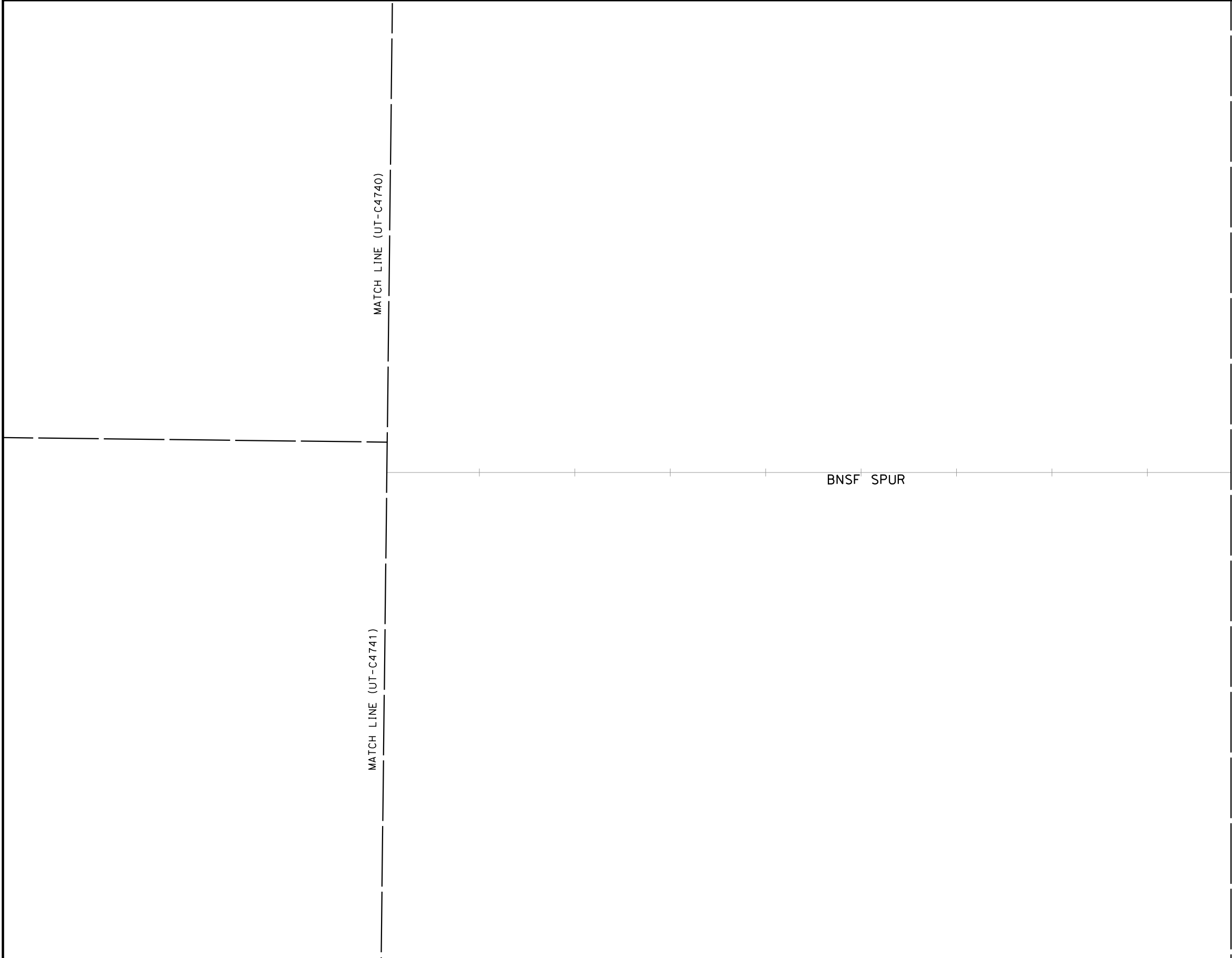


CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
EXISTING LONE STAR SPUR ABANDONMENT

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4748     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>156 OF 163     |

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| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

**PROPOSED  
PRELIMINARY  
DESIGN**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
EXISTING LONE STAR SPUR ABANDONMENT

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4749     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>157 OF 163     |

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ORT52801

MATCH LINE (UT-C4746)

MATCH LINE (UT-C4590)

BNSF SPUR

PROP ROW

PROPOSED SANTA FE WAY

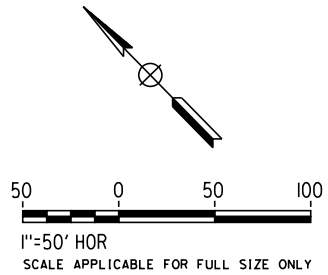
ROADWAY ROW

TRAIL

TRAIL

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015

MATCH LINE (UT-C4751)



| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA  
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
SANTA FE WAY

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4750     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>158 OF 163     |

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ORT52801

MATCH LINE (UT-C4591)

PROP ROW

PROP ROW

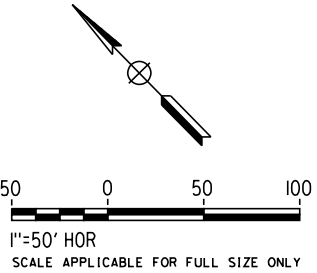
ROADWAY ROW

PROPOSED SANTA FE WAY

MATCH LINE (UT-C4750)

MATCH LINE (UT-C4752)

RFP No. HSR 14-32 – INITIAL RELEASE - 05/27/2015



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| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
SANTA FE WAY

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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4751     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>159 OF 163     |

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ORT52801

MATCH LINE (UT-C4592)

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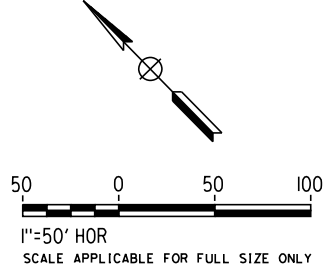
PROPOSED SANTA FE WAY

ROADWAY ROW

UTILITY INFORMATION

| NO. | FACILITY | SIZE | OWNER | DISPOSITION |
|-----|----------|------|-------|-------------|
| 1   | OH POWER | 12kV | PG&E  | RELOCATE    |

MATCH LINE (UT-C4751)



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| DESIGNED BY<br>T. RAMIL |
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| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
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CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**FRESNO TO BAKERSFIELD**  
PACKAGE 4 - ALIGNMENT WS1  
UTILITIES  
COMPOSITE UTILITY PLAN  
SANTA FE WAY



|                             |
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| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-C4752     |
| SCALE<br>AS SHOWN           |
| SHEET NO.<br>160 OF 163     |

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| ZONE | COUNTY | HST<br>ALIGN | EASTING     | NORTHING    | POINT<br>ID | STA #      | PROPOSED FACILITY<br>(INTERNAL<br>WIDTH<br>x<br>INTERNAL HEIGHT) | PROPOSED/ EXISTING FEATURE CROSSED       | CROSSING<br>ANGLE<br>(CLOCKWISE<br>FROM<br>NORTH) | ROW WIDTH<br>WEST OF CL<br>(FT) | ADDITIONAL<br>DIST. EACH<br>SIDE (FT) | TOTAL<br>LENGTH<br>OF<br>CHANNEL<br>SPANNED<br>BY<br>CULVERT<br>(FT) | EXISTING<br>ELEVATION<br>(OF INV) | PROPOSED<br>ELEVATION<br>(OF<br>TRACK) | DISTANCE<br>TO TOP<br>OF RAIL<br>(FT) |
|------|--------|--------------|-------------|-------------|-------------|------------|--|--|---|---------------------------------|---------------------------------------|--|-----------------------------------|--|---------------------------------------|
| Z4   | TUL    | A1           | 6441338.852 | 1811284.899 | A1-43       | 4444+90    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 214.59                            | 224.85                                 | 10.27                                 |
| Z4   | TUL    | A1           | 6441465.176 | 1809707.026 | A1-44       | 4460+70    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 216.39                            | 225.82                                 | 9.43                                  |
| Z4   | TUL    | A1           | 6441610.275 | 1808135.309 | A1-45       | 4476+50    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 217.85                            | 226.78                                 | 8.93                                  |
| Z5   | KER    | A1           | 6441806.659 | 1806569.544 | A1-46       | 4492+30    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 218.86                            | 227.74                                 | 8.88                                  |
| Z5   | KER    | A1           | 6442058.118 | 1805013.594 | A1-47       | 4508+10    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 218.45                            | 228.7                                  | 10.25                                 |
| Z5   | KER    | A1           | 6442366.463 | 1803452.912 | A1-48       | 4523+90    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 218.38                            | 229.67                                 | 11.29                                 |
| Z5   | KER    | A1           | 6442726.562 | 1801920.542 | A1-49       | 4539+70    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 219.65                            | 230.73                                 | 11.08                                 |
| Z5   | KER    | A1           | 6443141.237 | 1800396.281 | A1-50       | 4555+50    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 223.05                            | 233.01                                 | 9.96                                  |
| Z5   | KER    | A1           | 6443609.828 | 1798884.595 | A1-51       | 4571+30    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 225.1                             | 235.49                                 | 10.39                                 |
| Z5   | KER    | A1           | 6444128.111 | 1797392.047 | A1-52       | 4587+10    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 225.89                            | 237.97                                 | 12.07                                 |
| Z5   | KER    | A1           | 6444703.885 | 1795918.572 | A1-53       | 4602+90    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 152  | 229.03                            | 240.45                                 | 11.42                                 |
| Z5   | KER    | A1           | 6445326.451 | 1794470.868 | A1-54       | 4618+70    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 152  | 232.68                            | 242.92                                 | 10.24                                 |
| Z5   | KER    | A1           | 6446001.435 | 1793050.268 | A1-55       | 4634+50    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 235.24                            | 245.31                                 | 10.06                                 |
| Z5   | KER    | A1           | 6446724.858 | 1791638.608 | A1-56       | 4650+30    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 70                              | 0                                     | 172  | 234.88                            | 249.66                                 | 14.78                                 |
| Z5   | KER    | A1           | 6447212.208 | 1790757.783 | A1-57       | 4660+34    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 70                              | 0                                     | 140  | 236.96                            | 254.51                                 | 17.56                                 |
| Z5   | KER    | A1           | 6447602.231 | 1790083.354 | A1-58       | 4668+13    | 16'x12' DBL RCBC   | UNNAMED CANAL                            | 90.00   | 85                              | 25                                    | 220  | 243.9                             | 258.15                                 | 14.25                                 |
| Z5   | KER    | A1           | 6448113.554 | 1789238.84  | A1-59       | 4678+00    | 10'x3' RCBC  | VERNAL POOL/ WILDLIFE CROSSING STRUCTURE | 90.00   | 73                              | 0                                     | 146  | 240.83                            | 258.01                                 | 17.18                                 |
| Z5   | KER    | A1           | 6448595.722 | 1788478.914 | A1-60       | 4687+04    | 10'x3' RCBC  | VERNAL POOL/ WILDLIFE CROSSING STRUCTURE | 90.00   | 73                              | 0                                     | 146  | 243.02                            | 256.1                                  | 13.08                                 |
| Z5   | KER    | A1           | 6448903.372 | 1788010.996 | A1-61       | 4692+60    | 10'x3' RCBC  | VERNAL POOL/ WILDLIFE CROSSING STRUCTURE | 90.00   | 60                              | 0                                     | 120  | 243.62                            | 254.95                                 | 11.33                                 |
| Z5   | KER    | A1           | 6449461.318 | 1787193.283 | A1-62       | 4702+50    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 245.47                            | 254.94                                 | 9.46                                  |
| Z5   | KER    | A1           | 6450795.568 | 1785381.675 | A1-63       | 4725+00    | 5'x3' RCBC   | PERIODIC HYDRAULIC RELIEF                | 90.00   | 60                              | 0                                     | 120  | 249.05                            | 260.06                                 | 11.01                                 |
| Z5   | KER    | A1           | 6451322.516 | 1784714.856 | A1-64       | 4733+50.00 | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 249.05                            | 260.06                                 | 11.01                                 |
| Z5   | KER    | A1           | 6452295.03  | 1783508.007 | A1-65       | 4749+00    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 251.89                            | 262.62                                 | 10.73                                 |
| Z5   | KER    | A1           | 6453422.238 | 1782104.567 | A1-66       | 4767+00    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 254.96                            | 265.18                                 | 10.22                                 |
| Z5   | KER    | A1           | 6454213.198 | 1781072.935 | A1-67       | 4780+00.00 | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 256.91                            | 267.74                                 | 10.83                                 |
| Z5   | KER    | A1           | 6455116.85  | 1779813.699 | A1-68       | 4795+50.00 | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 260.31                            | 270.3                                  | 10.00                                 |
| Z5   | KER    | A1           | 6455916.557 | 1778617.92  | A1-69       | 4809+88.60 | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 120  | 263.06                            | 272.82                                 | 9.75                                  |
| Z5   | KER    | A1           | 6455949.563 | 1778566.149 | A1-70       | 4810+50.00 | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 263.41                            | 272.93                                 | 9.52                                  |
| Z5   | KER    | A1           | 6456191.234 | 1778186.624 | A1-71       | 4815+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 120  | 263.54                            | 273.82                                 | 10.28                                 |
| Z5   | KER    | A1           | 6456455.218 | 1777761.962 | A1-72       | 4820+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 120  | 264.56                            | 274.8                                  | 10.24                                 |
| Z5   | KER    | A1           | 6456714.578 | 1777334.506 | A1-73       | 4825+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 120  | 265.1                             | 275.78                                 | 10.67                                 |
| Z5   | KER    | A1           | 6456816.891 | 1777162.699 | A1-74       | 4827+00    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 265.69                            | 276.17                                 | 10.48                                 |
| Z5   | KER    | A1           | 6456969.126 | 1776904.066 | A1-75       | 4830+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 120  | 266.23                            | 276.76                                 | 10.53                                 |
| Z5   | KER    | A1           | 6457218.873 | 1776471.039 | A1-76       | 4835+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 120  | 267.13                            | 277.74                                 | 10.60                                 |
| Z5   | KER    | A1           | 6457463.846 | 1776034.987 | A1-77       | 4840+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 120  | 268.35                            | 278.72                                 | 10.36                                 |
| Z5   | KER    | A1           | 6457560.373 | 1775859.908 | A1-78       | 4842+00    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 268.5                             | 279.11                                 | 10.61                                 |
| Z5   | KER    | A1           | 6457703.89  | 1775596.523 | A1-79       | 4845+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 120  | 268.72                            | 279.7                                  | 10.98                                 |
| Z5   | KER    | A1           | 6457939.133 | 1775155.301 | A1-80       | 4850+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 120  | 269.97                            | 280.68                                 | 10.70                                 |
| Z5   | KER    | A1           | 6458008.584 | 1775022.308 | A1-81       | 4851+50.00 | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 120  | 270.18                            | 280.97                                 | 10.80                                 |
| Z5   | KER    | A1           | 6458169.368 | 1774711.46  | A1-82       | 4855+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 151  | 270.79                            | 281.66                                 | 10.87                                 |
| Z5   | KER    | A1           | 6458395.088 | 1774264.907 | A1-83       | 4860+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 151  | 271.46                            | 282.64                                 | 11.18                                 |
| Z5   | KER    | A1           | 6458603.47  | 1773838.975 | A1-84       | 4864+74.50 | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 151  | 272.11                            | 283.57                                 | 11.46                                 |
| Z5   | KER    | A1           | 6458701.615 | 1773635.957 | A1-85       | 4867+00    | 10'x3' RCBC  | WILDLIFE CROSSING STRUCTURE              | 90.00   | 60                              | 0                                     | 151  | 272.46                            | 284.01                                 | 11.55                                 |
| Z5   | KER    | A1           | 6458822.777 | 1773381.088 | A1-86       | 4869+82.20 | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 151  | 272.89                            | 284.56                                 | 11.67                                 |
| Z5   | KER    | A1           | 6459033.899 | 1772926.228 | A1-87       | 4874+83.67 | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 151  | 273.48                            | 285.55                                 | 12.06                                 |
| Z5   | KER    | A1           | 6459245.77  | 1772455.373 | A1-88       | 4880+00    | 10'x4' RCBC  | FLOODPLAIN DRAINAGE                      | 90.00   | 60                              | 0                                     | 120  | 274.82                            | 286.51                                 | 11.69                                 |




NOTES:

1. TABLE BASED ON RECORD SET 15% DESIGN SUBMISSION, FRESNO TO BAKERSFIELD, HYDROLOGY, HYDRAULICS AND DRAINAGE REPORT, DECEMBER 2013, APPENDIX B, HYDRAULIC CROSSING POINTS. UPDATED TO REFLECT DRAWING UPDATES INCLUDED IN DRAFT 15% DESIGN SUBMISSION, FRESNO TO BAKERSFIELD, ALIGNMENT PLANS, APRIL 2014, ROADWAY AND GRADE SEPARATION PLANS, APRIL 2014 AND STRUCTURE PLANS, DECEMBER 2013.

|          |                       |              |                         |  |                         |  |   |   |  |
|----------|-----------------------|--------------|-------------------------|--|-------------------------|--|---|---|--|
| ORT52801 | 9/27/2014 12:59:37 PM | CAHSR-r1.tbl | CHSR_PDF_half_black.plt | c:\pwworking\hmm\external\ort52801\d0237978\5-UT-Y4505.dgn | DESIGNED BY<br>T. RAMIL | PROPOSED<br>PRELIMINARY<br>DESIGN<br><br>NOT FOR<br>CONSTRUCTION |   | <b>CALIFORNIA HIGH-SPEED TRAIN PROJECT<br/>FRESNO TO BAKERSFIELD</b><br>PACKAGE 4<br>UTILITIES<br>COMPOSITE UTILITY PLAN<br>HH&D FACILITY SCHEDULE (SHEET 1 OF 3) | CONTRACT NO.<br>HSR 06-0003<br>DRAWING NO.<br>UT-Y4505<br>SCALE<br>NO SCALE<br>SHEET NO.<br>161 OF 163 |
|          |                       |              |                         |  | DRAWN BY<br>V. ORTEGA   |  |   |   |  |
|          |                       |              |                         |  | CHECKED BY<br>T. GRAU   |  |   |   |  |
|          |                       |              |                         |  | IN CHARGE<br>S. BURGESS |  |   |   |  |
| REV      | DATE                  | BY           | CHK                     | APP  | DESCRIPTION             | DATE<br>09/30/14   |   |   |  |



|    |     |    |             |             |       |         |                  |                                       |        |    |     |     |        |        |       |
|----|-----|----|-------------|-------------|-------|---------|------------------|---------------------------------------|--------|----|-----|-----|--------|--------|-------|
| Z5 | KER | L1 | 6163889.404 | 2437871.163 | L1-01 | 5154+40 | 10'x4' DBL RCBC  | FLOODPLAIN DRAINAGE                   | 90.00  | 60 | 0   | 120 | 284.06 | 295.15 | 11.09 |
| Z5 | KER | L1 | 6163991.155 | 2437547.379 | L1-02 | 5158+00 | 10'x3' RCRC      | WILDLIFE CROSSING STRUCTURE           | 90.00  | 60 | 0   | 73  | 284.74 | 295.78 | 11.04 |
| Z5 | KER | L1 | 6164037.875 | 2437394.661 | L1-03 | 5159+60 | 10'x4' DBL RCBC  | FLOODPLAIN DRAINAGE                   | 90.00  | 60 | 0   | 120 | 285.29 | 296.07 | 10.78 |
| Z5 | KER | L1 | 6164180.336 | 2436916.43  | L1-04 | 5164+58 | 10'x4' DBL RCBC  | FLOODPLAIN DRAINAGE                   | 90.00  | 60 | 0   | 120 | 286.56 | 296.97 | 10.41 |
| Z5 | KER | L1 | 6164318.027 | 2436435.591 | L1-05 | 5169+58 | 10'x4' DBL RCBC  | FLOODPLAIN DRAINAGE                   | 90.00  | 60 | 0   | 120 | 287.31 | 297.87 | 10.56 |
| Z5 | KER | L1 | 6164421.732 | 2436059.511 | L1-06 | 5173+50 | 10'x3' RCRC      | WILDLIFE CROSSING STRUCTURE           | 90.00  | 60 | 0   | 73  | 288.58 | 298.57 | 9.99  |
| Z5 | KER | L1 | 6164455.498 | 2435932.946 | L1-07 | 5174+79 | 10'x4' RCBC      | FLOODPLAIN DRAINAGE                   | 90.00  | 60 | 0   | 120 | 288.34 | 298.81 | 10.47 |
| Z5 | KER | L1 | 6164575.139 | 2435476.231 | L1-08 | 5179+52 | 10'x4' RCBC      | FLOODPLAIN DRAINAGE                   | 90.00  | 60 | 0   | 120 | 289.58 | 299.68 | 10.10 |
| Z5 | KER | L1 | 6164696.595 | 2434991.21  | L1-09 | 5184+52 | 10'x4' RCBC      | FLOODPLAIN DRAINAGE                   | 90.00  | 60 | 0   | 120 | 291.14 | 301.28 | 10.14 |
| Z5 | KER | L1 | 6164841.383 | 2434380.432 | L1-10 | 5190+79 | 13'x10' DBL RCBC | UNNAMED CANAL                         | 104.00 | 60 | 25  | 174 | 288.89 | 304.76 | 15.87 |
| Z5 | KER | L1 | 6164860.41  | 2434297.43  | L1-11 | 5191+65 | 10'x4' RCBC      | FLOODPLAIN DRAINAGE                   | 90.00  | 50 | 0   | 100 | 291.53 | 305.35 | 13.82 |
| Z5 | KER | L1 | 6164997.537 | 2433677.269 | L1-12 | 5198+00 | 5'x3' RCBC       | PERIODIC HYDRAULIC RELIEF             | 90.00  | 50 | 0   | 100 | 292.56 | 310.51 | 17.95 |
| Z5 | KER | L1 | 6165135.29  | 2433002.979 | L1-13 | 5204+89 | 10'x3' RCBC      | WILDLIFE CROSSING STRUCTURE           | 90.00  | 50 | 0   | 73  | 294.83 | 316.3  | 21.47 |
| Z5 | KER | L1 | 6165249.722 | 2432402.65  | L1-14 | 5211+00 | 5'x3' RCBC       | PERIODIC HYDRAULIC RELIEF             | 90.00  | 50 | 0   | 120 | 294.54 | 321.03 | 26.49 |
| Z5 | KER | L1 | 6165369.925 | 2431712.767 | L1-15 | 5218+00 | 48"RCP           | UNKNOWN (EQUIVALENT TO ADJACENT BNSF) | 90.00  | 50 | 0   | 250 | 295.55 | 324.59 | 29.03 |
| Z5 | KER | L1 | 6165464.93  | 2431120.032 | L1-16 | 5224+00 | 10'x3' RCBC      | WILDLIFE CROSSING STRUCTURE           | 90.00  | 50 | 0   | 73  | 296.93 | 325.78 | 28.85 |
| Z5 | KER | L1 | 6165502.113 | 2430872.9   | L1-17 | 5226+50 | 240' Bridge      | POSO CREEK                            | 141.00 | 40 | N/A | N/A | 294.13 | 326.11 | 31.98 |
| Z5 | KER | L1 | 6165559.825 | 2430475.288 | L1-18 | 5230+50 | 10'x3' RCBC      | WILDLIFE CROSSING STRUCTURE           | 90.00  | 50 | 0   | 73  | 298.45 | 325.76 | 27.32 |
| Z5 | KER | L1 | 6165655.457 | 2429732.254 | L1-19 | 5238+00 | 5'x3' RCBC       | PERIODIC HYDRAULIC RELIEF             | 90.00  | 50 | 0   | 100 | 299.93 | 323.33 | 23.40 |
| Z5 | KER | L1 | 6165744.954 | 2428938.179 | L1-20 | 5246+00 | 10'x3' RCRC      | WILDLIFE CROSSING STRUCTURE           | 90.00  | 50 | 0   | 73  | 300.46 | 319.9  | 19.45 |
| Z5 | KER | L1 | 6165829.493 | 2428041.292 | L1-21 | 5255+00 | 5'x3' RCBC       | PERIODIC HYDRAULIC RELIEF             | 90.00  | 50 | 0   | 100 | 301.64 | 316.88 | 15.25 |
| Z5 | KER | L1 | 6165878.171 | 2427394.802 | L1-22 | 5261+50 | 10'x3' RCRC      | WILDLIFE CROSSING STRUCTURE           | 90.00  | 50 | 0   | 100 | 302.36 | 316.72 | 14.35 |
| Z5 | KER | L1 | 6165957.671 | 2425845.932 | L1-23 | 5277+00 | 10'x3' RCRC      | WILDLIFE CROSSING STRUCTURE           | 90.00  | 60 | 0   | 73  | 302.66 | 317.17 | 14.51 |
| Z5 | KER | L1 | 6165983.568 | 2424546.42  | L1-24 | 5290+00 | 10'x3' RCRC      | WILDLIFE CROSSING STRUCTURE           | 90.00  | 60 | 0   | 73  | 307.71 | 320    | 12.30 |
| Z5 | KER | L1 | 6165974.161 | 2423313.195 | L1-25 | 5302+22 | 60" DBL RCP      | UNKNOWN (EQUIVALENT TO ADJACENT BNSF) | 90.00  | 60 | 0   | 128 | 308.94 | 321.42 | 12.   |

|     |      |    |     |     |             |                         |  |  |   |   |                             |
|-----|------|----|-----|-----|-------------|-------------------------|--|--|---|---|-----------------------------|
|     |      |    |     |     |             | DESIGNED BY<br>T. RAMIL | <b>PROPOSED<br/>PRELIMINARY<br/>DESIGN</b> | <br> |  | <b>CALIFORNIA HIGH-SPEED TRAIN PROJECT<br/>FRESNO TO BAKERSFIELD</b><br><br>PACKAGE 4<br>UTILITIES<br>COMPOSITE UTILITY PLAN<br>HH&D FACILITY SCHEDULE (SHEET 2 OF 3) | CONTRACT NO.<br>HSR 06-0003 |
|     |      |    |     |     |             | DRAWN BY<br>V. ORTEGA   |  |  |   |   | DRAWING NO.<br>UT-Y4506     |
|     |      |    |     |     |             | CHECKED BY<br>T. GRAU   |  |  |   |   | SCALE<br>NO SCALE           |
|     |      |    |     |     |             | IN CHARGE<br>S. BURGESS |  |  |   |   | SHEET NO.<br>162 OF 163     |
| REV | DATE | BY | CHK | APP | DESCRIPTION | DATE<br>09/30/14        |  |  |   |   |                             |

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| ZONE | COUNTY | HST<br>ALIGN | EASTING     | NORTHING    | POINT<br>ID | STA #            | PROPOSED FACILITY<br>(INTERNAL<br>WIDTH<br>x<br>INTERNAL HEIGHT) | PROPOSED/ EXISTING FEATURE CROSSED    | CROSSING<br>ANGLE<br>(CLOCKWISE<br>FROM<br>NORTH) | ROW WIDTH<br>WEST OF CL<br>(FT) | ADDITIONAL<br>DIST. EACH<br>SIDE (FT) | TOTAL<br>LENGTH<br>OF<br>CHANNEL<br>SPANNED<br>BY<br>CULVERT<br>(FT) | EXISTING<br>ELEVATION<br>(OF INV) | PROPOSED<br>ELEVATION<br>(OF<br>TRACK) | DISTANCE<br>TO TOP<br>OF RAIL<br>(FT) |
|------|--------|--------------|-------------|-------------|-------------|------------------|--|---------------------------------------|---|---------------------------------|---------------------------------------|--|-----------------------------------|--|---------------------------------------|
| Z5   | KER    | WS1          | 6165728.405 | 2420980.394 | WS1-01      | 5425+87, 196' R+ | 15'x11' DBL RCBC   | CULVERT UNDER SYSTEMS ROAD, 9-22      | N/A   | N/A                             | N/A                                   | 50   | N/A                               | N/A                                    | N/A                                   |
| Z5   | KER    | WS1          | 6165918.244 | 2420678.837 | WS1-02      | 5428+85          | 15'x11' DBL RCBC   | UNNAMED CANAL, 9-22                   | 90.00   | 68                              | 25                                    | 186  | 315.69                            | 324.46                                 | 8.77                                  |
| Z5   | KER    | WS1          | 6165798.942 | 2415065.186 | WS1-03      | 5485+00          | 14'x6' RCBC  | CULVERT UNDER EXISTING BNSF           | 90.00   | 68                              | 0                                     | 136  | 319.78                            | 330.91                                 | 11.14                                 |
| Z5   | KER    | WS1          | 6165774.012 | 2413897.793 | WS1-04      | 5496+67          | 8'x4' RCBC   | CULVERT UNDER EXISTING BNSF           | 90.00   | 68                              | 0                                     | 136  | 318.24                            | 332.26                                 | 14.01                                 |
| Z5   | KER    | WS1          | 6166407.103 | 2392079.99  | WS1-05      | 5715+73          | 8'x4' RCBC   | CULVERT UNDER ADJACENT ROAD           | N/A   | 68                              | 0                                     | 136  | N/A                               | N/A                                    | N/A                                   |
| Z5   | KER    | WS1          | 6167520.793 | 2389171.541 | WS1-06      | 5747+00          | 5'x3' RCBC   | PERIODIC HYDRAULIC RELIEF             | 90.00   | 68                              | 0                                     | 136  | 338.46                            | 349.79                                 | 11.33                                 |
| Z5   | KER    | WS1          | 6168704.02  | 2386970.319 | WS1-07      | 5772+00          | 5'x3' RCBC   | PERIODIC HYDRAULIC RELIEF             | 90.00   | 68                              | 0                                     | 136  | 341.97                            | 353.04                                 | 11.06                                 |
| Z5   | KER    | WS1          | 6183196.999 | 2371408.814 | WS1-08      | 5985+00          | 5'x3' RCBC   | PERIODIC HYDRAULIC RELIEF             | 90.00   | 40                              | 0                                     | 80   | 347.96                            | 355.57                                 | 7.61                                  |
| Z5   | KER    | WS1          | 6185076.327 | 2369470.671 | WS1-09      | 6012+00          | 5'x3' RCBC   | UNKNOWN (EQUIVALENT TO ADJACENT BNSF) | 90.00   | 40                              | 0                                     | 80   | 346.43                            | 355.57                                 | 9.14                                  |
| Z5   | KER    | WS1          | 6193551.56  | 2360137.255 | WS1-10      | 6138+18          | 4'x3' RCBC   | CULVERT UNDER EXISTING BNSF           | 90.00   | 50                              | 0                                     | 100  | 341.54                            | 364.38                                 | 22.83                                 |
| Z5   | KER    | WS1          | 6195641.42  | 2358090.056 | WS1-11      | 6167+44          | 5'x4' RCBC   | CULVERT UNDER EXISTING BNSF           | 90.00   | N/A                             | N/A                                   | 120  | 337.44                            | 346.62                                 | 9.18                                  |
| Z5   | KER    | WS1          | 6196186.907 | 2357556.973 | WS1-12      | 6175+00          | 5'x3' RCBC   | PERIODIC HYDRAULIC RELIEF             | 90.00   | N/A                             | N/A                                   | 120  | 337.23                            | 346.36                                 | 9.13                                  |
| Z5   | KER    | WS1          | 6196899.172 | 2356856.6   | WS1-13      | 6185+00          | 5'x3' RCBC   | PERIODIC HYDRAULIC RELIEF             | 90.00   | N/A                             | N/A                                   | 120  | 336.61                            | 346.06                                 | 9.45                                  |
| Z5   | KER    | WS1          | 6197429.242 | 2356335.639 | WS1-14      | 6192+41          | 5'x4' RCBC   | CULVERT UNDER EXISTING BNSF           | 90.00   | N/A                             | N/A                                   | 120  | 336.21                            | 345.83                                 | 9.62                                  |
| Z5   | KER    | WS1          | 6197965.969 | 2355800.131 | WS1-15      | 6200+00          | 5'x3' RCBC   | PERIODIC HYDRAULIC RELIEF             | 90.00   | N/A                             | N/A                                   | 200  | 335.93                            | 345.61                                 | 9.68                                  |
| Z5   | KER    | WS1          | 6200444.963 | 2353264.658 | WS1-16      | 6235+45          | 5'x4' RCBC   | CULVERT UNDER EXISTING BNSF           | 90.00   | N/A                             | N/A                                   | 206  | 337                               | 344.93                                 | 7.93                                  |

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|-------------------------|
| DESIGNED BY<br>T. RAMIL |
| DRAWN BY<br>V. ORTEGA   |
| CHECKED BY<br>T. GRAU   |
| IN CHARGE<br>S. BURGESS |
| DATE<br>09/30/14        |

PROPOSED  
PRELIMINARY  
DESIGN

NOT FOR  
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT  
FRESNO TO BAKERSFIELD

PACKAGE 4  
UTILITIES  
COMPOSITE UTILITY PLAN  
HH&D FACILITY SCHEDULE (SHEET 3 OF 3)

|                             |
|-----------------------------|
| CONTRACT NO.<br>HSR 06-0003 |
| DRAWING NO.<br>UT-Y4507     |
| SCALE<br>NO SCALE           |
| SHEET NO.<br>163 OF 163     |